# ARCTIC DATA COMPILATION AND APPRAISAL
## VOLUME 21
## Queen Elizabeth Islands: Physical Oceanography - Temperature, Salinity, Currents and Water Levels
## REVISED AND UPDATED TO INCLUDE 1819 THROUGH 1988

by

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1990

## CANADIAN DATA REPORT OF HYDROGRAPHY AND OCEAN SCIENCES
## NO. 5

Canada

## Canadian Data Report Of Hydrography and Ocean Sciences

These reports provide a medium for the documentation and dissemination of data in a form directly useable by the scientific and engineering communities.

Generally, the reports will contain raw and/or analyzed data but will not contain interpretations of the data. Such compilations will commonly have been prepared in support of work related to the programs and interests of the Ocean Science and Surveys (OSS) sector of the Department of Fisheries and Oceans.

Data Reports are produced regionally but are numbered and indexed nationally. Requests for individual reports will be fulfilled by the issuing establishment listed on the front cover and title page. Out of stock reports will be supplied for a fee by commercial agents.

Regional and headquarters establishments of Ocean Science and Surveys ceased publication of their various report series as of December 1981. A complete listing of these publications and the last number issued under each title are published in the *Canadian Journal of Fisheries and Aquatic Sciences*, Volume 38: Index to Publications 1981. The current series began with Report Number 1 in January 1982.

## Rapport statistique canadien sur l'hydrographie et les sciences océaniques

Ces rapports servent de véhicule pour la compilation et la diffusion des données sous une forme directement utilisable par les scientifiques et les techniciens.

En général, les rapports contiennent des données brutes ou analysées mais ne fournissent pas d'interprétations des données. Ces compilations sont préparées le plus souvent à l'appui de travaux reliés aux programmes et intérêts du service des Sciences et Levés océaniques (SLO) du ministère des Pêches et des Océans.

Les rapports statistiques sont produits à l'échelon régional mais sont numérotés et placés dans l'index à l'échelon national. Les demandes de rapports seront satisfaites par l'établissement auteur dont le nom figure sur la couverture et la page de titre. Les rapports épuisés seront fournis contre rétribution par des agents commerciaux.

Les établissements des Sciences et Levés océaniques dans les régions et à l'administration centrale ont cessé de publier leurs diverses séries de rapports depuis décembre 1981. Vous trouverez dans l'index des publications du volume 38 du *Journal canadien des sciences halieutiques et aquatiques*, la liste de ces publications ainsi que le dernier numéro paru dans chaque catégorie. La nouvelle série a commencé avec la publication du Rapport n° 1 en janvier 1982.

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90-06180/

# PREFACE

These catalogues are produced by the Data Assessment Division at the Institute of Ocean Sciences. Joint government and industry contract projects have catalogued marine data sets, their focus being mainly on oceanography and fisheries. Data quality appraisals are included to assist in establishing the usefulness of given data for particular analyses or purposes. The ratings also determine the confidence that can be placed on interpretations incorporating those data.

The appraisals will assist in establishing priorities for incorporating the most useful data in the national Marine Environmental Data Service (MEDS) archives. Additional uses of the catalogues include the provision of the best available resume of marine data sources for research planning, environmental assessments, land use planning, regulatory approvals and operational procedures.

In the past, the pace of offshore development activity has emphasized the need to review the sufficiency and suitability of available scientific information for design, regulatory and planning purposes. The review is a three-stage process: 1) compilation and appraisal of the existing data sets; 2) analysis of the suitability of existing data sets for contributing answers to questions of concern; and, 3) analysis and interpretation of data and estimation of scientific confidence in the answer to the particular question. This report represents part of the results of the first stage for the physicial oceanographic data of the Queen Elizabeth Islands.

Brian Smiley
Scientific Editor
Arctic Data Compilation and Appraisal
Series

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## ABSTRACT

This volume is one of a group of catalogues designed to compile and appraise marine data sets for the Canadian Arctic. For user convenience, the group has been organized with its subject matter divided into three general disciplines: physics, chemistry and biology. The Arctic has been arbitrarily divided into seven geographical areas incorporating, where possible, major oceanographic regions. The format throughout has been structured to facilitate comparison among subjects and regions. With such a large undertaking it is not possible to provide all reports at once. Other catalogues currently available are listed on the inside back cover.

Data collection continues in the Canadian Arctic and updates of the catalogues are planned. Readers are invited to submit corrections and additions in writing to either of the issuing establishments. Any corrections will be incorporated in the on-line computerized data set listing; they will be continuously available on request.

## SOMMAIRE

Le présent volume fait partie d'un groupe de catalogues destines à compiler et à évaluer les séries de données marines sur l'Arctique canadien. Pour plus de commodité, la question traitée est structurée en trois grandes disciplines: physique, chimie et biologie. L'Arctique a ete divisé arbitrairement en sept régions géographiques qui englobent autant que possible les grandes régions océanographiques. Les catalogues sont présentés de facon à faciliter la comparaison entre les sujets et les régions. Le domaine est si vaste qui'il est impossible de fournir tous les catalogues en une seule fois. Les catalogues de la série actuellement disponibles sont indiqués à la fin de chaque volume à l'interieur de la couverture.

La collecte des donnees est un processus permanent et il est prévu de mettre à jour les catalogues par la suite. Les lecteurs sont invités à soumettre par écrit les corrections et les additions à l'etablissement auteur. Ces corrections seront traitées en direct sur ordinateur et incorporées aux listages qui pourront être obtenus sur demande.

## ACKNOWLEDGEMENTS

This is an updated version of the original Queen Elizabeth Island physical oceanographic data inventory (Fissel et al. 1983). Much of the text in this report is verbatim from the original.

Many people were helpful in providing information. In addition to those who were acknowledged in the original report, we want to thank P. Wainwright of Seakem Oceanography Ltd. for sharing some secrets of dBase with us. Mr. Bob Dales of Panarctic Oils Limited and Mr. Oleh Mycyk of C.O.G.L.A. assisted in tracking down some of the misplaced data reports.

The data bases of the Marine Environmental Data Service in Ottawa and the National Oceanographic Data Centre in Washington provided much of the early station header information.

Within Arctic Sciences Ltd., A. McKenzie was responsible for word processing and G. Wilton assisted with contract management.

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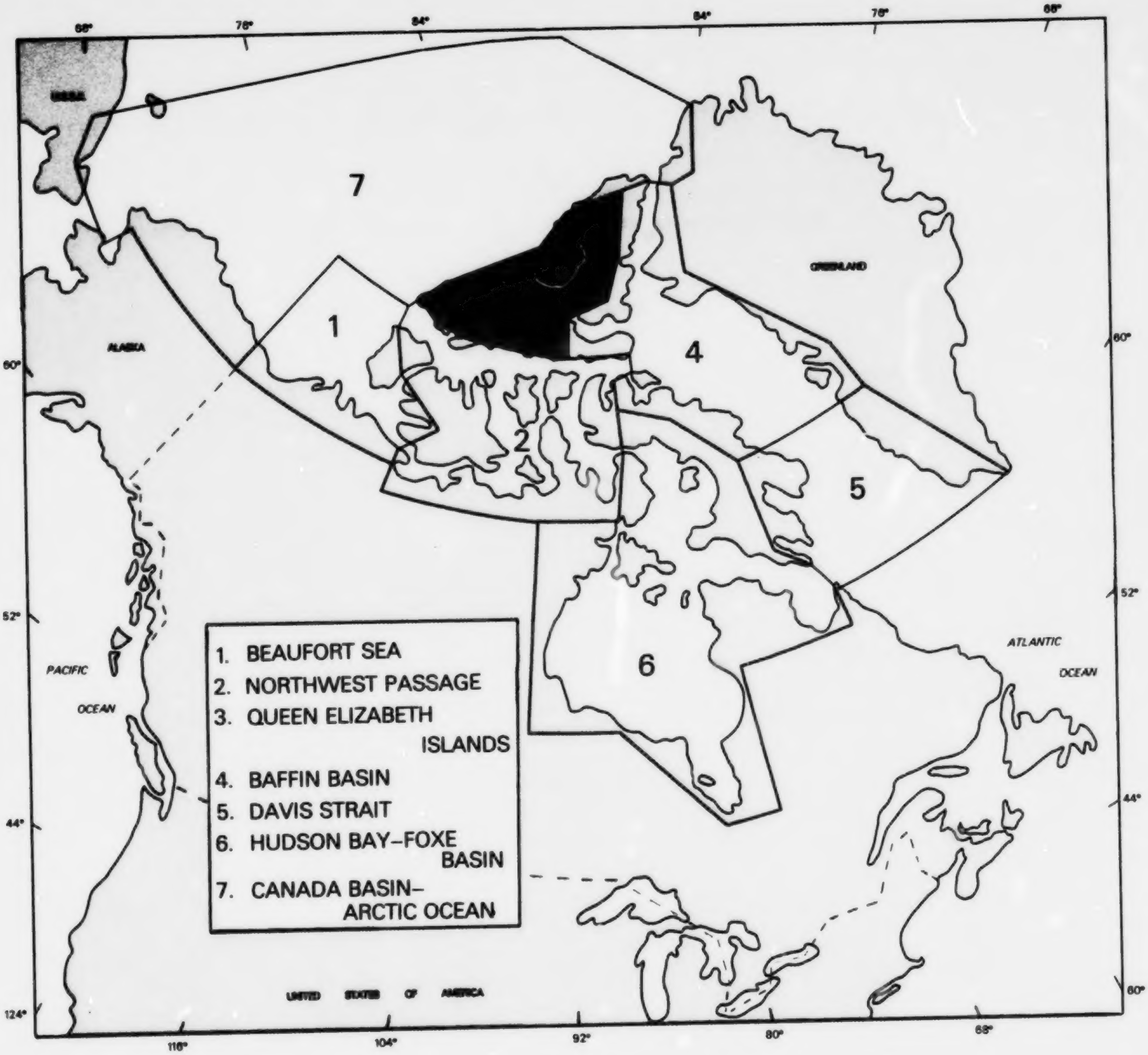
Marine Environmental Data Service (MEDS)

# ARCTIC DATA COMPILATION AND APPRAISAL

## VOLUME 21

## QUEEN ELIZABETH ISLANDS: PHYSICAL OCEANOGRAPHY


USSR
ALASKA
GREENLAND
PACIFIC OCEAN
ATLANTIC OCEAN
UNITED STATES OF AMERICA
7
1
2
4
5
6
1. BEAUFORT SEA
2. NORTHWEST PASSAGE
3. QUEEN ELIZABETH ISLANDS
4. BAFFIN BASIN
5. DAVIS STRAIT
6. HUDSON BAY-FOXE BASIN
7. CANADA BASIN-ARCTIC OCEAN
68°
76°
84°
84°
76°
68°
60°
60°
52°
52°
44°
44°
124°
116°
104°
92°
80°
68°
60°

# VOLUME 21: Queen Elizabeth Islands: Physical Oceanography Temperature, Salinity, Currents and Water Levels

## VOLUME ABSTRACT

This inventory contains a catalogue of physical oceanographic data collected in the Queen Elizabeth Islands between 1819 and 1988. This is an update of an earlier inventory by Fissel et al. (1983). Fifty-one new data sets have been added to the original eighty-six. Times and locations of measurements are listed and displayed graphically for temperature-salinity, current-meter and water-level data. A search for wave data did not turn up any data sets. Yearly plots showing the locations of all measurements are included. References and sources are listed for all data included in the inventory.

Key words: Queen Elizabeth Islands, current, data, inventory, salinity, temperature, tides, water properties.

## 1. INTRODUCTION

In this report, the physical oceanographic data collected in the channels of the Queen Elizabeth Islands are catalogued. The information provided includes the times and locations of measurements, the parameters measured, and the type of instrumentation. The data themselves are not included, but a source for the data and any reports or references utilizing the data are cited wherever possible. This will enable potential users of the data to determine what is available in their areas of interest, what data were collected using a specific measurement technique, and whether or not those data may be of value.

The original inventory contained eighty-six data sets (1948 through 1981). Fifty-one additional data sets have been included in this update. Very little data were collected before 1948 (see Section 3), and these measurements are considered to be crude by today's standards. The post 1986 decline in data collection is largely a result of Panarctic Oils Ltd.'s exploration program being put on hold.

The data inventory is ongoing. A computerized data base is maintained at the Institute of Ocean Sciences, Sidney, B.C. Information concerning new data sets, older data sets which are not in the catalogue, or errors, should be submitted to the Data Assessment Division of the Institute of Ocean Sciences.

## 2. STUDY AREA

The study area (Figure 1) consists of the waterways of the Queen Elizabeth Islands of the Northwest Territories extending as far east as Ellesmere and Devon islands. It includes the central area of the Sverdrup Basin (Hazen Strait, Desbarats Strait, MacLean Strait, Belcher Channel, Norwegian Bay) along with the connecting channels to Parry Channel to the south (Crozier and Pullen Straits, Kellett Strait, Crozier Channel, Fitzwilliam Strait, Byam and Austin Channels, McDougall Sound, Wellington Channel) to Fram and Jones Sound in the southeast (Cardigan Strait and Hell Gate), and to the Arctic Ocean in the north and west (Ballantyne Strait, Wilkins Strait, Prince Gustaf Adolf Sea, Peary Channel, and Sverdrup Channel). In addition, the study area encompasses the water channels of the west coast of Ellesmere Island, including Greely Fiord, Nansen and Eureka Sounds and adjoining fiords.

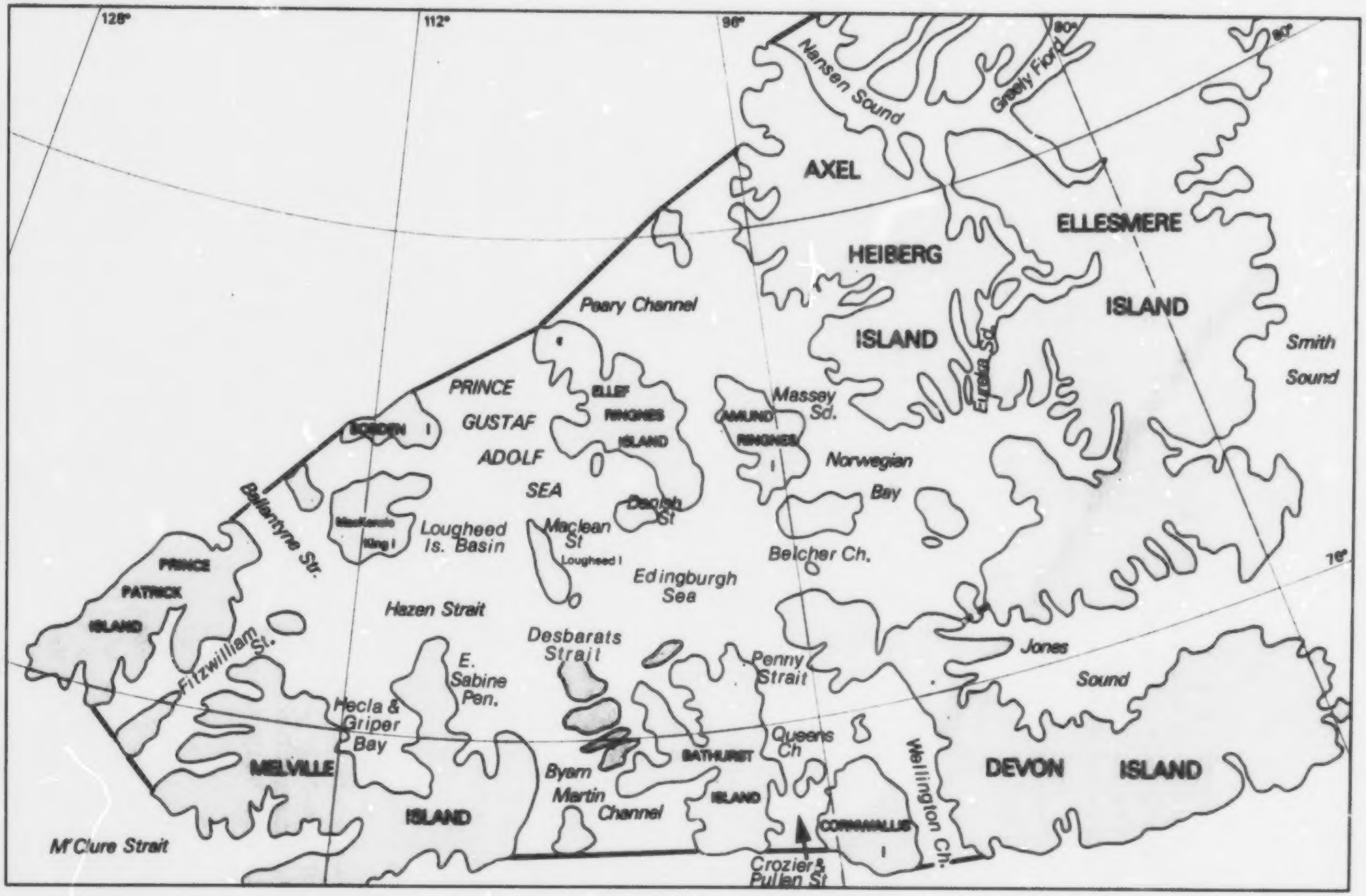

128°
112°
96°
80°
64°
16°
Nansen Sound
Greely Fiord
AXEL
HEIBERG
ISLAND
ELLESMERE
ISLAND
Eureka Sd.
Smith
Sound
Peary Channel
PRINCE
GUSTAF
ADOLF
SEA
ELLEF
RINGNES
ISLAND
AMUND
RINGNES
I
Massey
Sd.
Norwegian
Bay
BORDEN I
Danish
St
Maclean
St
Lougheed I
Mackenzie
King I
Lougheed
Is. Basin
Ballantyne Str.
Belcher Ch.
Edingburgh
Sea
PRINCE
PATRICK
ISLAND
Hazen Strait
Jones
Sound
Fitzwilliam
St.
Desbarats
Strait
Penny
Strait
E.
Sabine
Pen.
Hecla &
Griper
Bay
Queens
Ch
Wellington Ch.
MELVILLE
ISLAND
Byam
Martin
Channel
BATHURST
ISLAND
CORNWALLIS
I
DEVON
ISLAND
M'Clure Strait
Crozier &
Pullen St

Figure 1: Queen Elizabeth Islands data inventory study area. The heavy lines mark the boundaries of the data inventory.

### Bathymetry

Water depths in the area show a general tendency to decrease from north to south. The adjoining continental shelf to the north of the Queen Elizabeth Islands has a typical depth of 500 m. A similar depth range is found in Prince Gustaf Adolf Sea, Peary and Sverdrup Channels and Nansen Sound. However, some deeper depressions occur, notably to 920 m in the Nansen Sound-Greely Fiord system, to 700 m in Peary Channel and to 600 m in Prince Gustaf Adolf Sea. In the central portion of the study area, the relatively deep waters of 400 m or more are separated into distinct basins by northward protruding zones of shallow water; such shallow zones with depths less than 200 m extend northward across Desbarats Strait to Lougheed Island and northward across Belcher Channel and Hendriksen Strait to Amund Ringnes Island. The presence of a sill between Nansen and Eureka Sounds restricts horizontal water movements to depths above 120 m.

The depths of passages at the southern limit of the study area are limited to 100 m in Hell Gate, 170 m in Cardigan Strait, 160 m in Penny Strait, 120 m in Austin Strait, 100 m in Byam Strait and 250 m in Fitzwilliam Strait.

### Sea Ice

An important factor in determining the extent of oceanographic data is the sea-ice coverage. Where present in sufficient quantity and thickness, sea-ice can provide a stable platform for the collection of oceanographic data. However, at times when sea-ice is breaking up or forming, oceanographic data collection is severely hindered.

During the winter months, ice conditions are severe in the study area. Typically, the area is covered by a combination of first-year and multi-year sea-ice floes. The multi-year ice floes often originate in the Arctic Ocean and are carried south into the region by the winds and currents. In many of the channels, the horizontal displacements of the ice-cover is limited to 15 m or less during winter. Polynyas (areas of open water or thin ice) have been known to occur in some of the southern channels, particularly in Hell Gate and northern portions of Wellington Channel. In most of the study area, the winter sea-ice provides a suitable platform, for such activities as drilling for oil and gas, and collecting oceanographic data.

In summer, the ice coverage is less extensive, with large variations occurring from one year to another. Normally, the eastern portion of the central area (MacLean Strait and Norwegian Bay into Eureka Sound) exhibits considerable amounts of clearing, while further to the west, the region remains under seven-tenths or more of ice cover. The southern channels in the east clear out, often completely, while the more westerly channels can partially clear, but seldom completely.

## 3. HISTORICAL DATA

The earliest oceanographic measurements were made by British explorers. Parry's crew recorded water-level fluctuations on August 28, 1819 near Byam Martin Island. Temperature and current data were also collected, but apparently not within the Queen Elizabeth Islands. Water-level data were later collected in 1852 and 1853 by other British vessels.

The "modern" era of oceanographic data collection began with bottle cast measurements of temperatures and salinities collected by government agencies in the late 1940's, 1950's and 1960's. These data were usually of a reconnaissance nature, collected from icebreakers during the limited navigation season (e.g. Bailey, 1957) or from the ice using aircraft support from the Polar Continental Shelf Project's base in Resolute, N.W.T. (Collin, 1961).

In the 1970's, with the increasing activity associated with the search for oil and gas in the region, both government and industry mounted more extensive oceanographic programs (Figure 2). The most active company, Panarctic Oils Ltd., began offshore exploration in 1974. For engineering design purposes, information on the ocean currents was required, since no previous current data were available for the area. In addition, ocean current data along with water property (temperatures and salinities) and water level data were collected to satisfy oceanographic environmental operating conditions, established by the federal government. The data collection program has been carried out each winter and spring from 1974 up to 1986, when Panarctic suspended their drilling activity. Since all logistics are provided in conjunction with the exploratory offshore drilling program, the Panarctic data are largely confined to the winter and spring periods, and at offshore exploration sites.

In addition to Panarctic, other companies have been involved in oil and gas exploration or related ventures in the region and, as part of their activities, they have collected some oceanographic data. Oceanographic data were collected by the Polar Gas Consortium in April and May of 1980 between Lougheed and Melville Islands. These data consist of ocean-current and water-level measurements. In addition, near surface current-meter data were collected by Petro-Canada between 1977 and 1979 in central portions of the study area (Hazen Strait, MacLean Strait, Byam Martin Channel and the Edingburgh and Prince Gustaf Adolf Seas).

Various agencies of the federal government were active during the 1970's in collecting oceanographic data, in response to the increasing development activity. The agencies involved were:

- the oceanographic unit at the Canada Centre for Inland Waters (CCIW) in Burlington, Ontario (now Bayfield Marine Laboratory) who conducted oceanographic programs in the area between 1976 and 1982;
- Canadian Hydrographic Service, Tides and Water Levels, at CCIW who have collected water-level data at various sites in the study area in recent years; and
- Frozen Sea Research Group of the Institute of Ocean Sciences, Sidney, B.C. who have carried out oceanographic studies in the fiords of western Ellesmere Island and, later, in several of the passages connecting the Sverdrup Basin with the Northwest Passage.

The Institute of Ocean Sciences (IOS) conducted an extensive oceanographic program in the archipelago from 1982 through 1985.

Oceanographic activity has declined sharply since 1986, because of a reduction in oil company activity and a decrease in government-funded programs. Only one data set was found for 1987, and none for 1988.

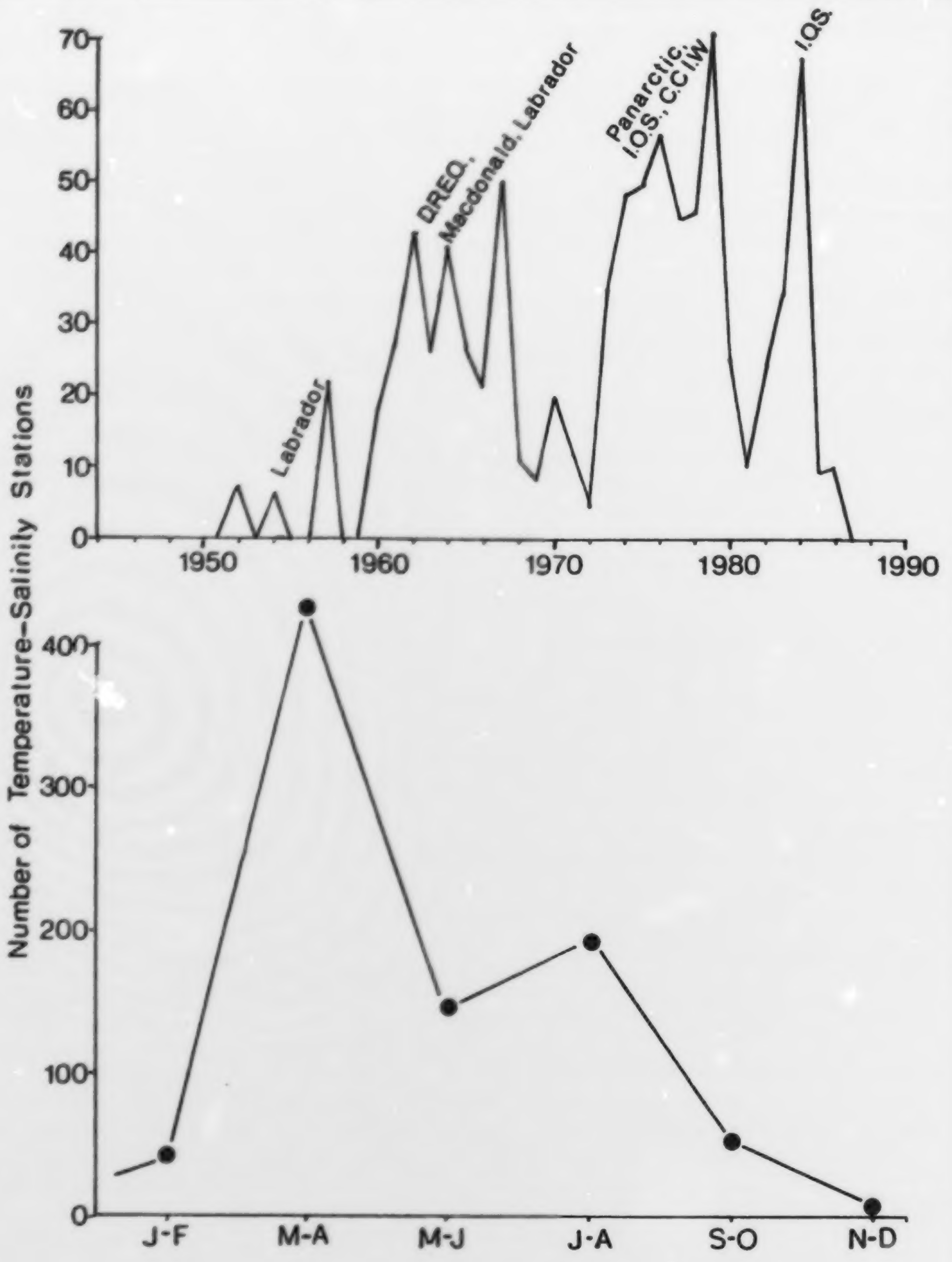


Figure 2: Yearly (upper) and seasonal (lower) distribution of oceanographic study effort, based on the number of temperature-salinity stations, from both profiling and moored instrumentation.

## 4. GENERAL REPORT LAYOUT AND USER INSTRUCTIONS

### 4.1 DATA SETS

The data are organized in sets, where each set consists of data of a common type, usually taken on a single expedition or cruise by one institution or organization. In some cases, where similar methods were used, one cruise has been assigned to the same data set. In those cases, letter suffixes have been used to differentiate different cruises. Thus, unless otherwise noted, all the data within a single set may be assumed to have been collected in a uniform manner and should conform to a common standard of measurement.

Each data set has been assigned an identification number of the form yyyy-nnnn, where yyyy = the year in which data were collected and nnnn = order of identification for that particular data set, for that year. The data-set number is a unique identifier which applies throughout the entire series of inventories; any set identified, for example, as 1972-0009 is the same data set no matter where the reference to it is made. Gaps may appear in the sequence of data-set numbers in this inventory for a particular year, because each data set will not appear in every discipline and geographical area. The data-set identification numbers are accompanied by the vessel and/or agency or company involved. The funding group is often given as well.

### 4.2 INVENTORY ORGANIZATION

Table 1 (Section 8) lists all the data sets in the inventory in order of data-set number. It provides a summary description of each set including the times, areas and methods of measurements. Table 1 also gives a listing, not necessarily complete, of concurrent measurements from other disciplines.

Data sets were rated according to the criteria in Section 5. The ratings are included in Table 1. Appendix 1 contains comments explaining the reasons for low ratings, and any other pertinent remarks concerning the data. The comments are ordered by data-set number.

Measurement locations are plotted in a series of maps in Section 9. Three different maps, all in Lambert Conformal Conic projection, have been used to plot data. The overall map has a scale of 1:4,750,000. Two larger scale maps were used to better illustrate the distribution of stations in the southeast sector (Wellington Channel, Penny Strait, etc.), and in the Nansen Sound-Eureka Sound area; scales are 1:2,630,000 and 1:2,000,000 respectively. In most cases, the overall map of the entire study area is used, along with one larger-scale map. The coastlines have been smoothed and small islands removed to avoid clutter. Map specifications and key to the symbols on the maps are presented at the beginning of Section 9.

Section 10 contains an index of references, ordered by data set-number. It is primarily an index of original data reports, although ancillary papers analyzing or discussing the data are listed if they came to our attention.

Detailed listings of the times and locations of individual measurements are in Section 11. There is a separate listing for each data type. The format of the listings is explained at the beginning of Section 11.

Section 6 contains a general description of the extent of the data available in this area. Sections 6.1 and 6.2 describe their geographical and seasonal distribution.

### 4.3 SAMPLE USE OF THE INVENTORY

A typical use of the inventory might be as follows:

1. Examine the maps in Section 9 for measurements during the year(s) of interest, and note the data set number of interest.
2. Refer to Data Inventory Table 1 (Section 8) to find the dates, measurement methods, accuracies and data sources.
3. If more specific information is required concerning the timing or location of individual measurements in the data set, refer to the station listing in Data Inventory Table 2 (Section 11).
4. Consult the reference index in Section 10 for publications or reports referring to or using the data.

## 5. DATA RATING AND APPRAISAL

### 5.1 TYPES OF DATA

### 5.1.1 BOTTLE CAST DATA

These data consist of temperature and salinity measurements at discrete depths (ideally the international standard depths) obtained by means of reversing thermometers and sampling bottles. Temperature accuracies of ± 0.01°C may be achieved by averaging two or more carefully read, well-calibrated thermometers. Some investigators have used hydrometers (± 0.2°/$_{oo}$) and refractometers (± 0.5°/$_{oo}$) for the determination of salinity. Up to 1960 salinity was usually obtained by titrating the water samples drawn from the bottles; replicate titrations in the hands of a good operator could yield results precise to ± 0.01°/$_{oo}$. In the 1960's, salinometers measuring salinity via the conductivity of the sample replaced titrations. A precision of ± 0.003°/$_{oo}$ can be obtained with the better instruments, although in the past, systematic errors of ± 0.02°/$_{oo}$ or more could be introduced by variations in the standard water used to calibrate these instruments. New international standards for salinity should eliminate the latter source of error (Lewis, 1980).

### 5.1.2 CTD DATA

CTD data are produced by in-situ profiling instruments variously called STD (salinity-temperature-depth), STP (salinity-temperature-pressure), CTD (conductivity-temperature-depth) or CTP (conductivity-temperature-pressure) profilers. Fundamentally, all are CTP devices; the variations in output and name depend solely upon the degree of internal data processing. All instruments perform the same basic function of measuring (more or less continuously) temperature and conductivity as a function of depth. The precision achievable with such devices depends upon the individual instrument. The best are capable of a precision of ± 0.005°C and 0.005°/$_{oo}$, although accuracy in salinity, until recently, was limited to approximately ± 0.02°/$_{oo}$ because of the inconsistencies in salinity standards and definitions (Walker and Chapman, 1973).

### 5.1.3 BATHYTHERMOGRAPH DATA

The bathythermograph (BT) is a thermo-mechanical device which measures water temperature as a function of pressure. Its information is recorded as a trace, on a smoked-glass slide or gold-coated slide, which can be read to an accuracy of ± 0.2°C and ± 2 m depth if the instrument is well calibrated. The BT was widely used in conjunction with bottle casts but has largely been superseded by the CTD. XBT's are the expendable variety. BT data have not generally been compiled, unless they were accompanied by other physical oceanographic measurements.

### 5.1.4 SELF-RECORDING CURRENT-METER DATA

By the 1970's oceanographers could practically and reliably place and recover self-recording current meters in the water column. Meters of this type generally record internally on magnetic tape (in some older models photographic film or paper charts were used) or telemeter the data to a ship or to a shore receiving station. They generally provide time series of current speed and direction, and may have other sensors (for measuring temperature, pressure or conductivity) as well. Current speed and direction are usually measured by one of two methods: either by a propellor or rotor for measuring speed and a vane for direction sensing, or by the measurment of two orthogonal components of the current flow. Current components may be measured by dual-orthogonal propellors, or by electromagnetic or acoustic sensors. Direction reference is usually provided either by a magnetic compass; in the case of instruments mounted from ships or from the ice, torsionally rigid suspension materials allow directional reference to be fixed at the surface. Commonly used instruments employing the propellor and vane system are the Aanderaa, Hydroproducts, Endeco and AMF (Vector-averaging) meters; those employing the component-measuring system are the Cushing and Marsh-McBirney instruments (electromagnetic), the Neil Brown (acoustic), and the Davis-Weller (orthogonal-propellor) instruments.

The precision and accuracy of current meters depend both on the design of the instrument, and on the environment in which it is used. Serious problems are encountered if rotor-type meters are used in the wave zone. Calibration drift and sensor fouling can interfere with satisfactory operation of electromagnetic and acoustic sensors. The sampling frequency and integration period selected for the meter can also affect the accuracy of the record.

Special problems in direction measurement are encountered when using compasses in the Canadian Arctic because of the weak horizontal component of the magnetic field due to the proximity of the magnetic pole. Directional accuracies are generally degraded unless the current meter is oriented at the surface via rigid coupling. In some cases, errors of 180 degrees in direction resulted due to faulty surface alignment.

The vast majority of current-meter data within this area were obtained using Aanderaa RCM-4 current meters, fitted with small vanes to allow deployment through holes in the ice. While the Aanderaa current meter is widely used by oceanographers throughout the world, both the speed and direction sensors have some limitations. Current speeds in this area are frequently below the stall speed of the Savonius rotor, so that at some stations a zero current was recorded nearly 50% of the time. In addition, there may be increased risk of the direction vane becoming stuck because of deposits of biological origin (or other causes) in a low energy environment.

### 5.1.5 PROFILING CURRENT-METER DATA

These current meters provide a series of point measurements of current speed and direction at several depths throughout the water column. Meters used for this purpose are generally of the propellor or rotor and vane design. Measurements usually are taken through the ice, or from an anchored ship in shallow water. In water too deep for anchoring, a very good positioning system is required to correct for ship movements. Unless repeated profiles were taken so as to form a time series, this type of data was not generally catalogued.

### 5.1.6 WATER-LEVEL DATA

Water-level data are produced mainly by visual observation of tide staffs, by mechanical shore-mounted float-type gauges, or by bottom-mounted pressure gauges. Some early data consist only of observations of the times of high and low water levels. Pressure gauges may be self-contained, or they may consist of a pressure sensor connected to a shore-mounted recording device. The mechanical gauges record by means of a pen on chart paper. The data are usually digitized at hourly intervals, resulting in a record with a resolution of approximately ± 1 cm, and an accuracy of the order of ± 5 to 10 cm. The resolution of the bottom-pressure gauges varies from a millimetre to a centimetre, depending upon the instrument type and range. Sampling intervals generally vary between 5 and 60 minutes. Bottom-pressure gauges generally record total pressure, atmospheric plus hydrostatic. In order to extract the water-level fluctuations due to changing atmospheric pressure (ie. the inverted barometer effect), the atmospheric pressure must also be recorded.

Water-level data collected by government agencies are usually referenced to the elevation of a nearby benchmark of known elevation. Therefore different data sets may be compared in an absolute sense as long as they are referenced to the same benchmark. Water-level data from different areas, referenced to different benchmarks, cannot be compared absolutely, since the relative elevation changes between different benchmarks is generally not known. One can determine a long-term average for each record and compare fluctuations about this average; however it is not yet possible to compare the average long-term water-level heights at sites referenced to different benchmarks.

Virtually all the water-level data collected on behalf of Panarctic Oils Ltd. were obtained with a Steven Model 2A-35 Duplex Recorder. This instrument measures the vertical movement of the ice sheet by means of a cable attached to a weight on the ocean floor. The recordings should be corrected for changes in freeboard of the ice, its horizontal movements, and changes in the position of the bottom weight, which might slowly sink into the mud. Changes in freeboard of the ice are recorded by the instrument on a second channel and horizontal ice movements were monitored; where necessary, corrections have been applied to the data. Usually the error due to sinking of the bottom weight was not known. Only the maximum and minimum water levels and the corresponding times were logged from the strip charts. The timing accuracy is quoted in Panarctic's reports as ± 30 minutes (some earlier reports quote ± 1 hour). Most records obtained with the Steven recorder were not continuous, but contained gaps lasting several days.

### 5.1.7 OTHER DATA

Other types of oceanographic data which were sought, in this area, include: radar-, aircraft-, or satellite-tracked drifter data; and wave data. No data from any of these categories were found.

## 5.2 DATA RATING SCALE

### 5.2.1 RATING DEFINITIONS

The data appraisal in this inventory is intended to provide the reader with an indication of the quality of each data set and its suitability for comparison with other data sets. The appraisal was based primarily on documentation describing the methods used in collecting and processing the data and the investigator's estimate of their precision, accuracy and utility. Subsequent analyses of the data were also taken into account, e.g. if errors were found in a particular data set during a subsequent analysis, and the results were published, these results were used in the assessment. Note that a thorough appraisal requiring investigation of the data and comparison with other data sets, is beyond the scope of this report. In effect, in most cases we took the investigator's word for the quality of their data.

The information from the sources above was used to assign a numerical rating to each set. The rating system has five levels, defined as follows:

0: Data were found to be wrong.

1: Data are suspect and probably not internally consistant; trends or patterns within the data are not likely real.

2: Data quality could not be determined due to insufficient documentation.

3: Data are internally consistent - patterns or trends within the data themselves are probably real, but comparison with other data sets may pose problems.

4: Data are internally consistent and exhibit sufficient standardization that comparison with other 4-rated data should be possible.

The reason for data sets receiving less that a 3- or 4-rating are usually provided in the comments of Appendix 1.

### 5.2.2 ASSIGNMENT OF RATINGS

0 RATING

A data set received a 0 rating if serious deficiencies in technique, or significant systematic errors, occurred. A 0 rating was also assigned if the documentation of the data set lacked essential information (e.g. the positions and times of measurements) which no longer exists.

1 RATING

A data set received a 1 rating if, either as part of a data report or in subsequent analysis and examination, the original or other investigators questioned the validity of the data without pinpointing specific errors. In general, a 1 rating was assigned if a data set exhibited an atypical distribution of values, or indicated unlikely physical processes, but contained no obvious errors. Such data sets require careful examination before use.

### 2 RATING

Ratings of 2 were given to data sets for which it was not possible to carry out an appraisal. Such cases include:

(i) Proprietary data, whose existence is known, but about which no details are available.

(ii) Data sets for which we were unable to obtain documentation, but know that data were collected (e.g. much of the temperature and conductivity data from Aanderaa current meters deployed for Panarctic Oils Ltd.).

### 3 RATING

Data received a 3 rating if they were internally consistent within the precision of the methods used to collect the data. Precision refers to the degree of random fluctuation experienced when a measurement is repeated many times, while accuracy is the departure of the measurement (or the mean of a series made under controlled conditions) from the true value. Because oceanographic data are normally taken without replication and under uncontrolled conditions, data taken with instruments of a certain precision will have the same (or poorer) level of accuracy. An exception is the case of a series of temperature-salinity measurements taken within a water body of stable, well-defined characteristics, in which case the mean of the series could provide a measurement more accurate than the precision.

Ratings of 3 were given to all data sets for which no evidence of errors beyond the precision given in Table 1 was found, but which did not satisfy each of the criteria required for a rating of 4 (see below).

This is based on data reports and other publications; the actual data were not checked further. In some instances, the instrument and/or precision and accuracy were unknown, but the collecting agency used standardized methods; these data sets were generally awarded a 3 rating when there was no evidence suggesting deficiencies in the data.

Caution should be exercised when comparing two sets of 3-rated data, as their levels of precision may be quite different. The reader should consult both Table 1 and Appendix 1 for precision and error information.

### 4 RATING

Data received a rating of 4 if: they were measured to the precision available with modern methods described in Section 5.1; they had no evidence of systematic or other errors recorded in the documentation; and they were obtained using measurement instrumentation, methodology and techniques which provide data that can be related to national or international standards.

Since standards tend to change, rating of 4 were only grudgingly awarded. Some of the 3 ratings may merit an increase to 4 after further study of the data has been made.

Of all the physical oceanographic data that were inventoried, the bulk of the data is temperature/salinity measurements. Until the early 1960's, water samples were collected with bottle cast and salinities were determined by titration. During most of the 1960's, salinities were generally determined using conductivity bridges, and since then instruments which measured conductivity and temperature in situ (CTDs) became the standard. Salinity was then computed from the temperature and conductivity values.

CTDs with increased resolution have revealed gradations in salinity where previous chemical analyses indicated homogeneous water. Since both bottle and CTD data may have ratings of 3, caution must be used in any comparison.

Salinity determination depends on a standard. In the past this was $35^\circ/_{oo}$ Copenhagen water. However, variability in the standard and in the calibration of the instrumentation often resulted in systematic errors of $\pm\ 0.2^\circ/_{oo}$ or more.

A new, practical salinity scale has recently been adopted (Lewis, 1980). A conductivity ratio is measured (the conductivity of the unknown to that of a standard laboratory-produced sample) and waters of the same conductivity ratio at a given temperature and pressure are then defined to have the same salinity. This reduces systematic errors in salinity. However, most of the historical data remains subject to a $\pm\ 0.2^\circ/_{oo}$ accuracy limitation.

Current-meter data were judged by the instrument characteristics, response, and the deployment methods. The main causes of low ratings are directional errors and contamination by mooring motion and wave-orbital velocities.

## 6. SUMMARY OF DATA COVERAGE

### 6.1 SPATIAL COVERAGE, INCLUDING DATA DISTRIBUTION MAPS

The locations of all measurements are summarized individually for bottle/CTD data (Figures 3a, b and 4a, b), current meter (Figures 5a, b) and water-level data (Figures 6a, b). The spatial coverage is far from uniform for any of the data types. The measurement sites tend to be concentrated in three sub-areas: the southern waterways adjoining Parry Channel; the central portions of the area centred around an area extending from the Sabine Peninsula of Melville Island to Lougheed Island to King Christian Island; and the channels of Nansen and Eurkea Sounds.

The areas with the least amount of data are located south and west of Axel Heiberg Island, and in Ballantyne Strait and Prince Gustaf Adolf Sea.

### 6.2 SEASONAL COVERAGE, INCLUDING BI-MONTHLY MAPS

The quantity of oceanographic data varies markedly according to the time of year when the measurements were obtained. This seasonal pattern is illustrated in Figures 7 to 12 (temperature/salinity data), and Figures 13 to 18 (current meter and water level data): in each figure, the locations of available measurements are plotted according to the two-month period in which the data were obtained beginning in January-February, and continuing through to November-December. The largest quantities of temperature-salinity data are available in the months of March and April (Figure 2) with a lesser peak during July and August. The current meter and water level data are most concentrated during the May through August period.

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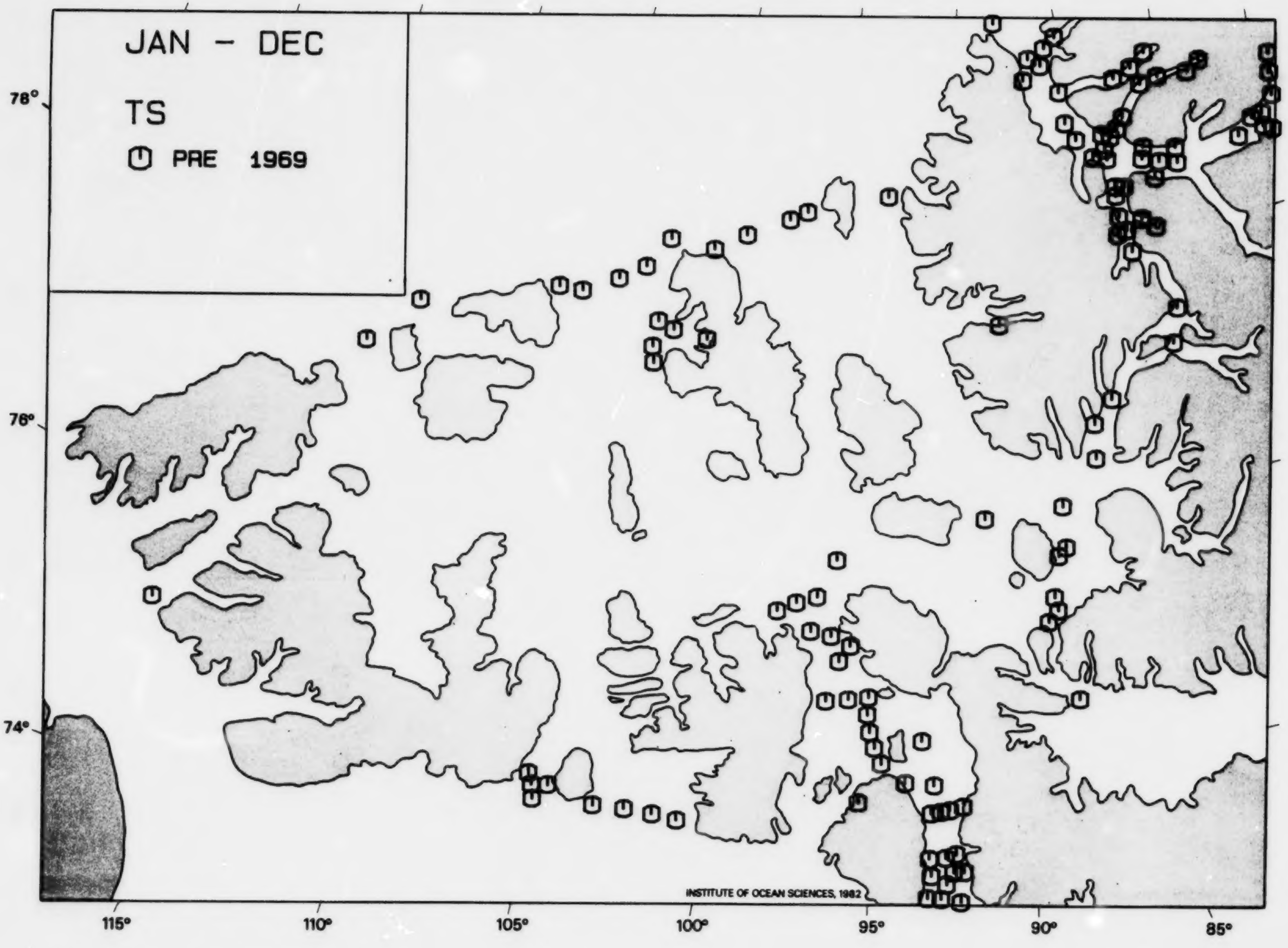
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INSTITUTE OF OCEAN SCIENCES, 1982

Figure 3a: The locations of temperature-salinity measurements up to and including 1969 (289 stations).

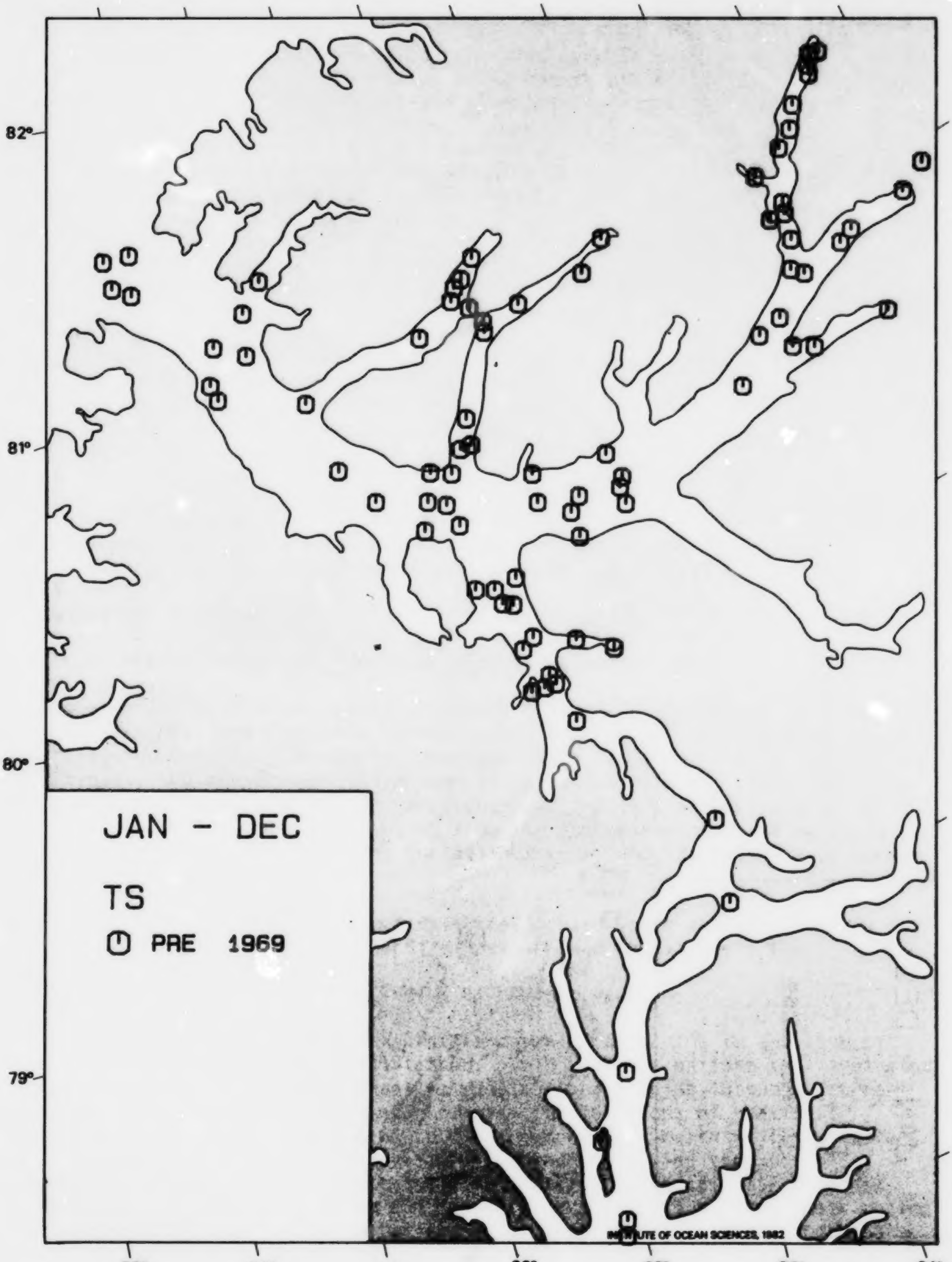
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Figure 3b: The locations of temperature-salinity measurements up to and including 1969, Nansen Sound region (202 stations).

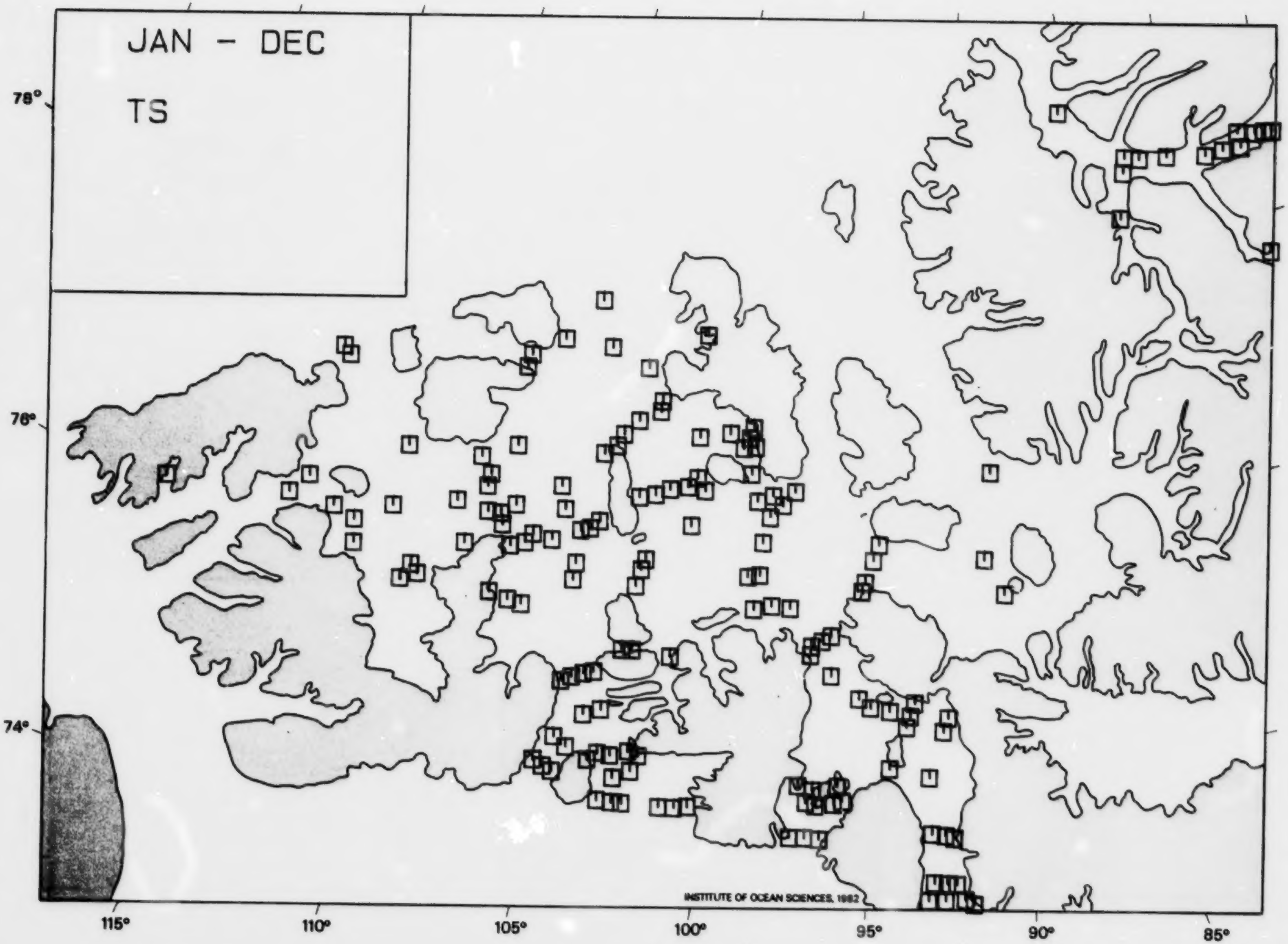
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Figure 4a: The locations of temperature-salinity measurements, 1976 to 1988 (501 stations).

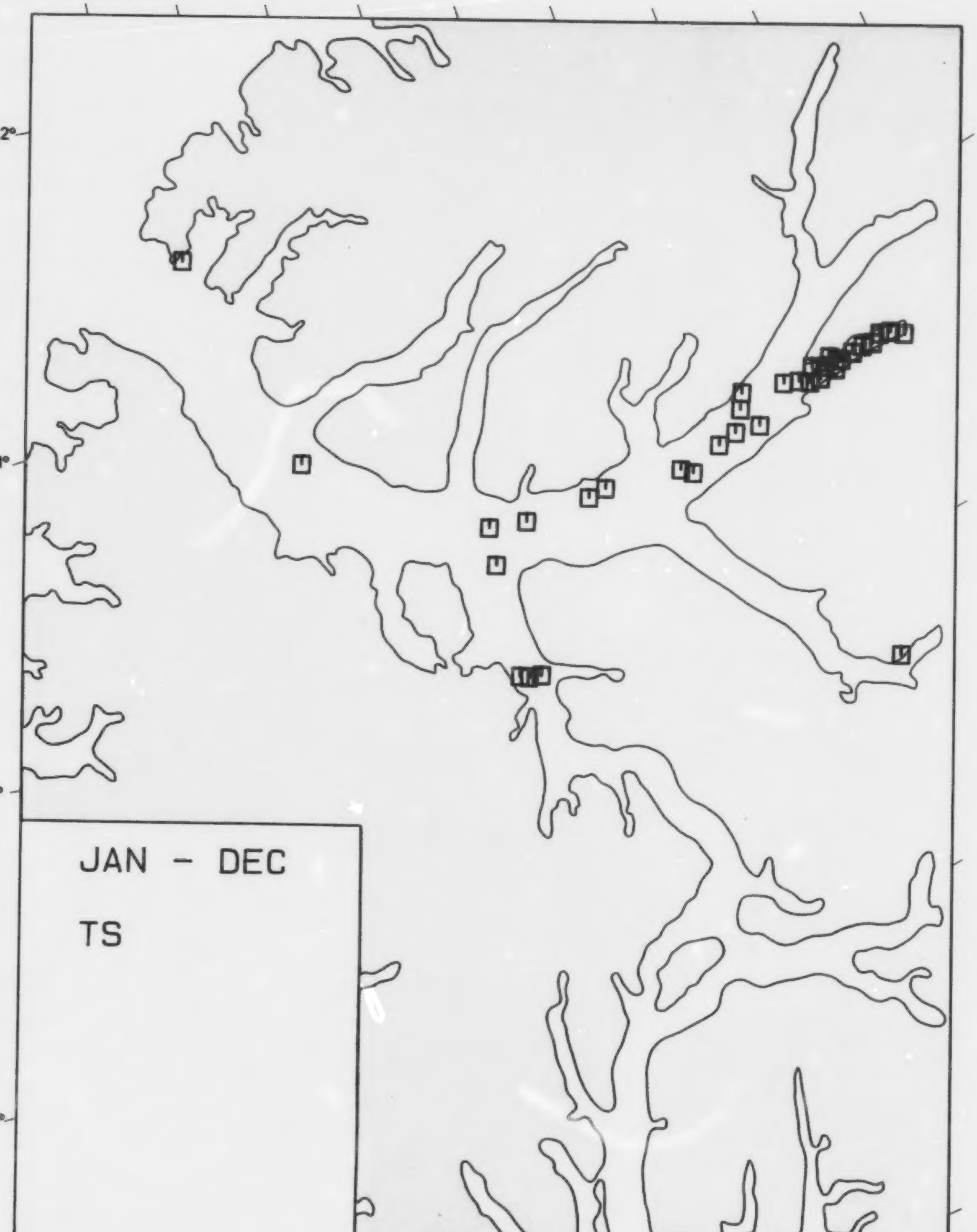
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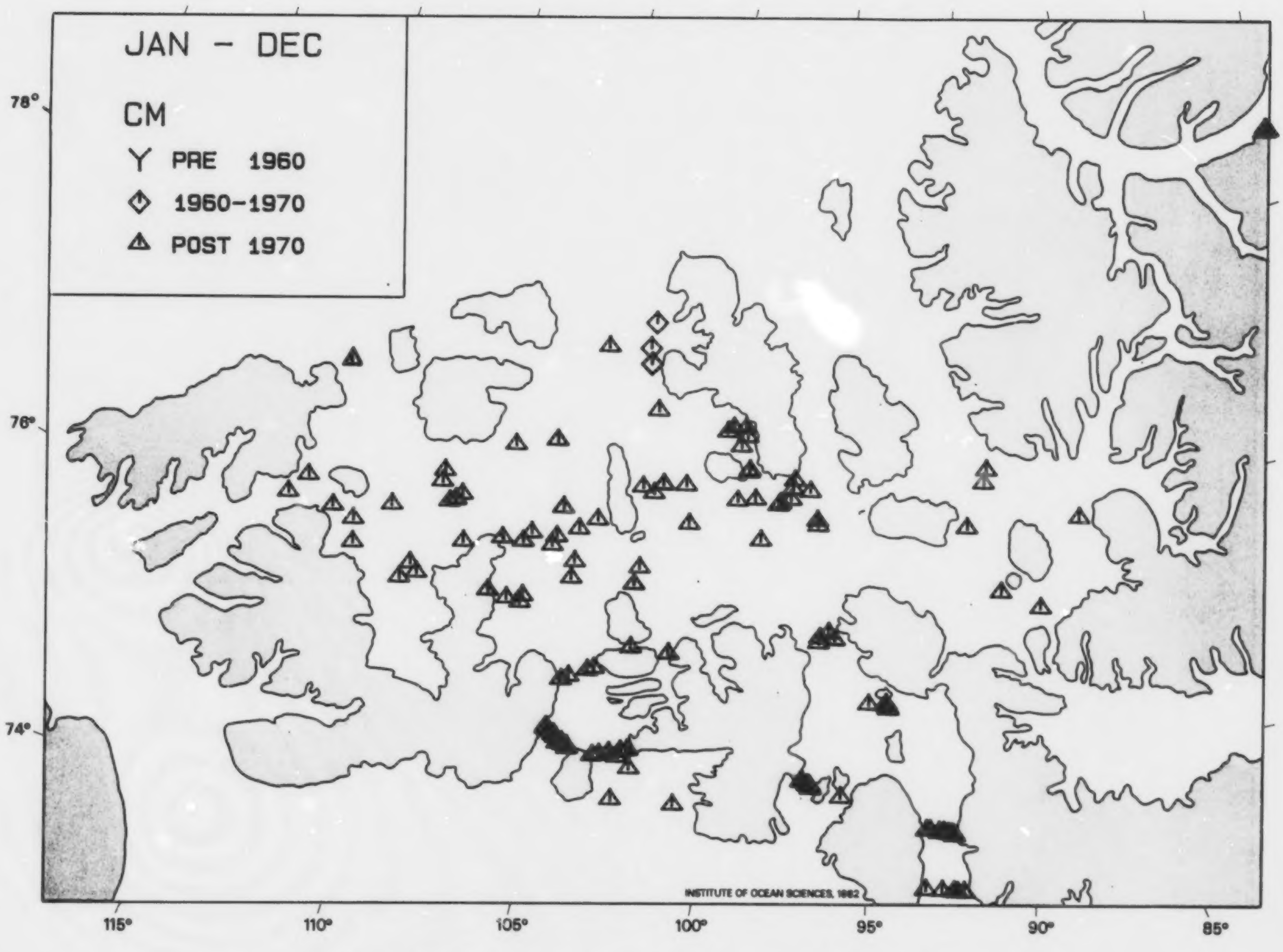
Figure 4b: The locations of temperature-salinity measurements, Nansen Sound region, 1970 to 1988 (129 stations).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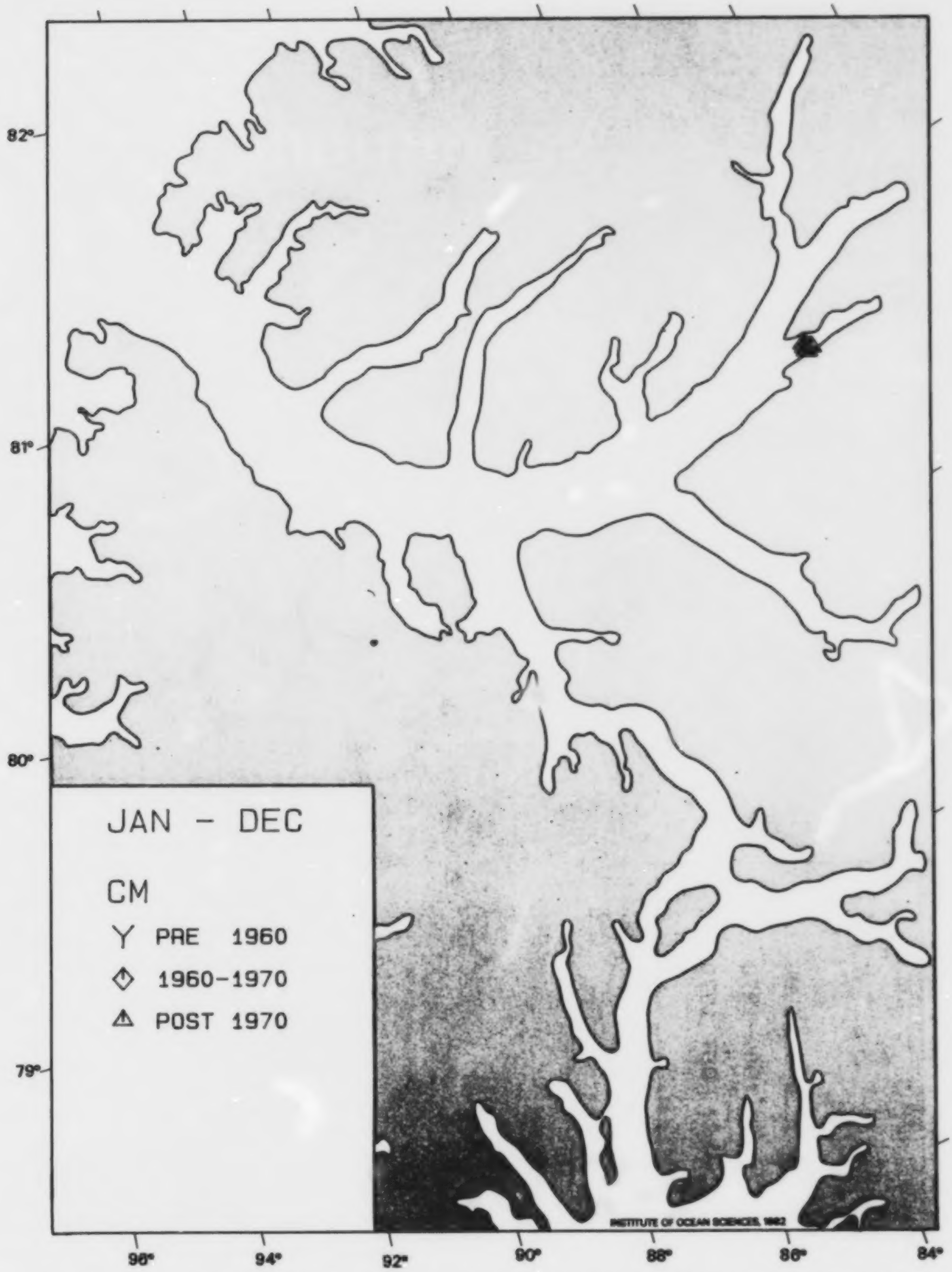
INSTITUTE OF OCEAN SCIENCES, 1982

Figure 5a: The locations of all current-meter measurements (216 records).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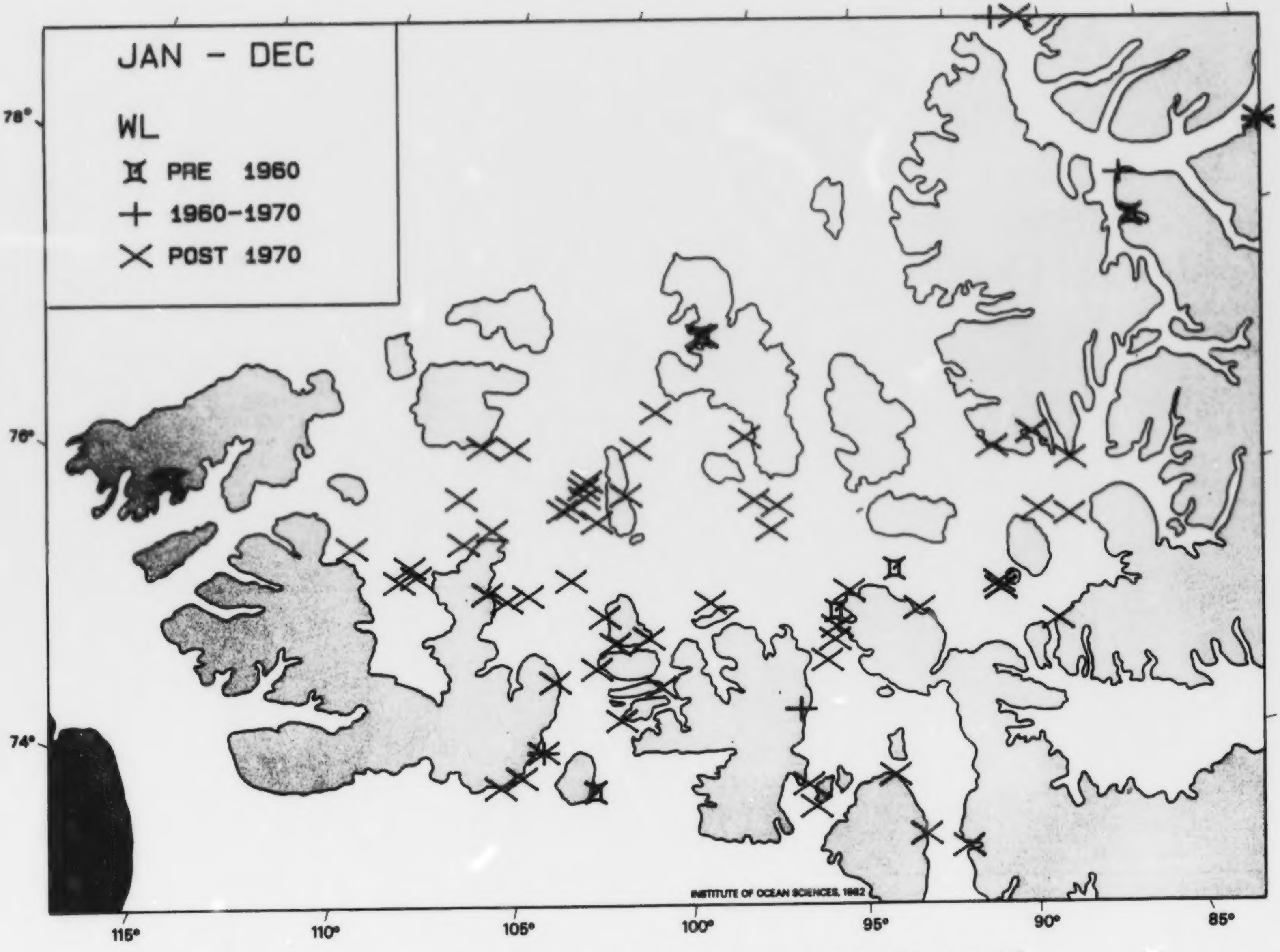
INSTITUTE OF OCEAN SCIENCES, 1982

Figure 5b: The locations of all current-meter measurements, Nansen Sound region (10 records).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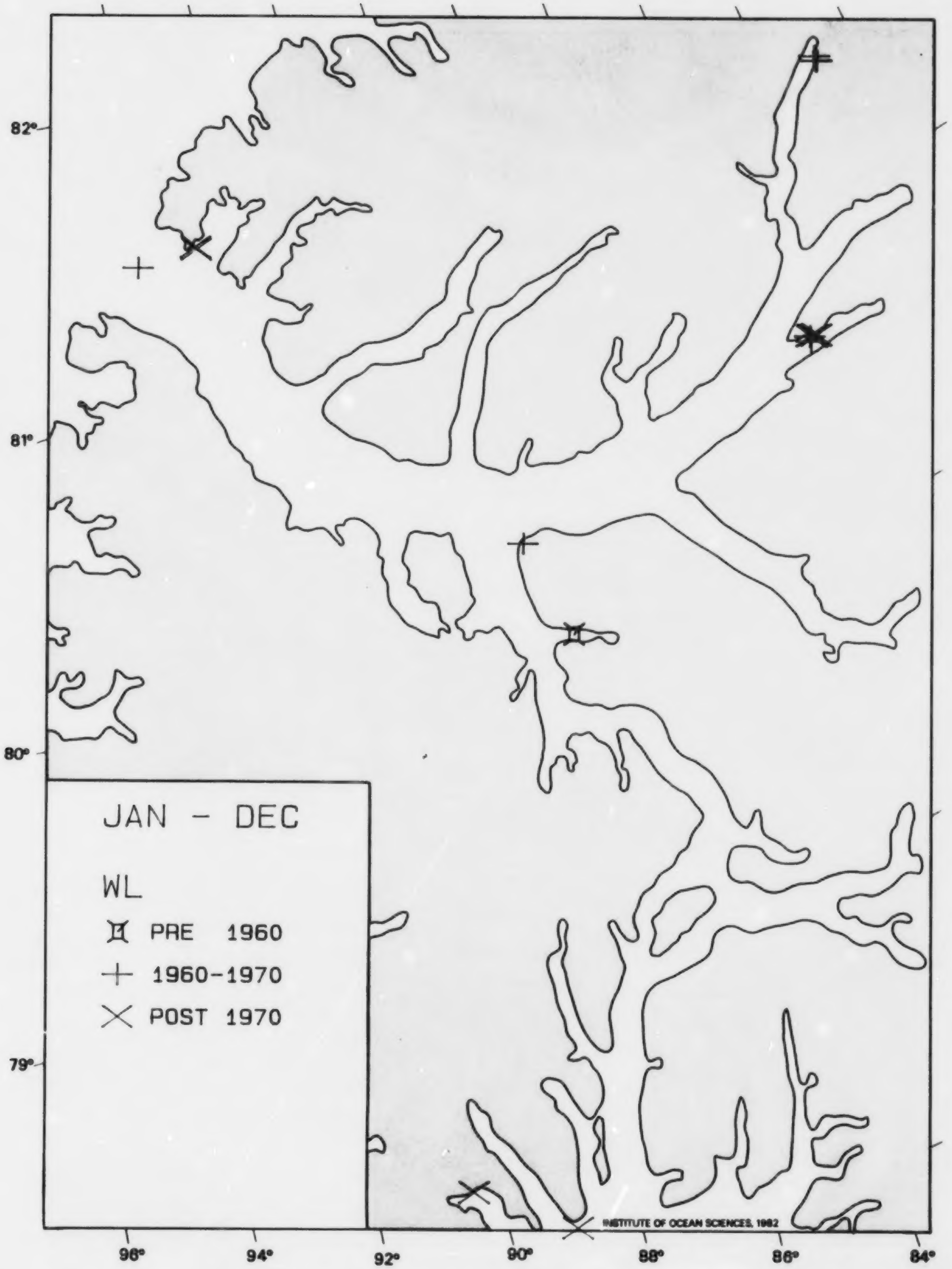
INSTITUTE OF OCEAN SCIENCES, 1982

Figure 6a: The locations of all water-level measurements (93 records).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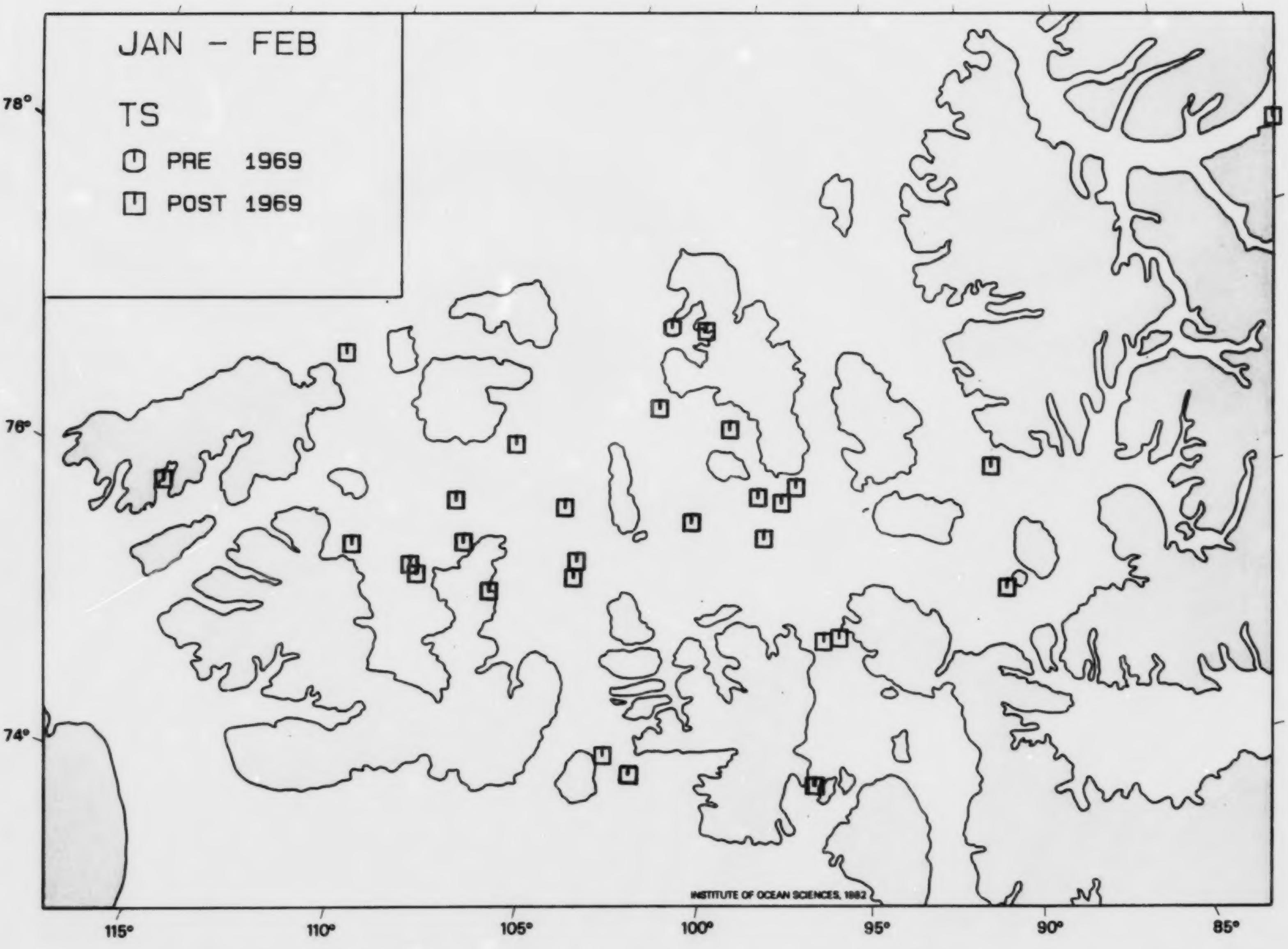
INSTITUTE OF OCEAN SCIENCES, 1982

Figure 6b: The locations of all water-level measurements, Nansen Sound region (26 records).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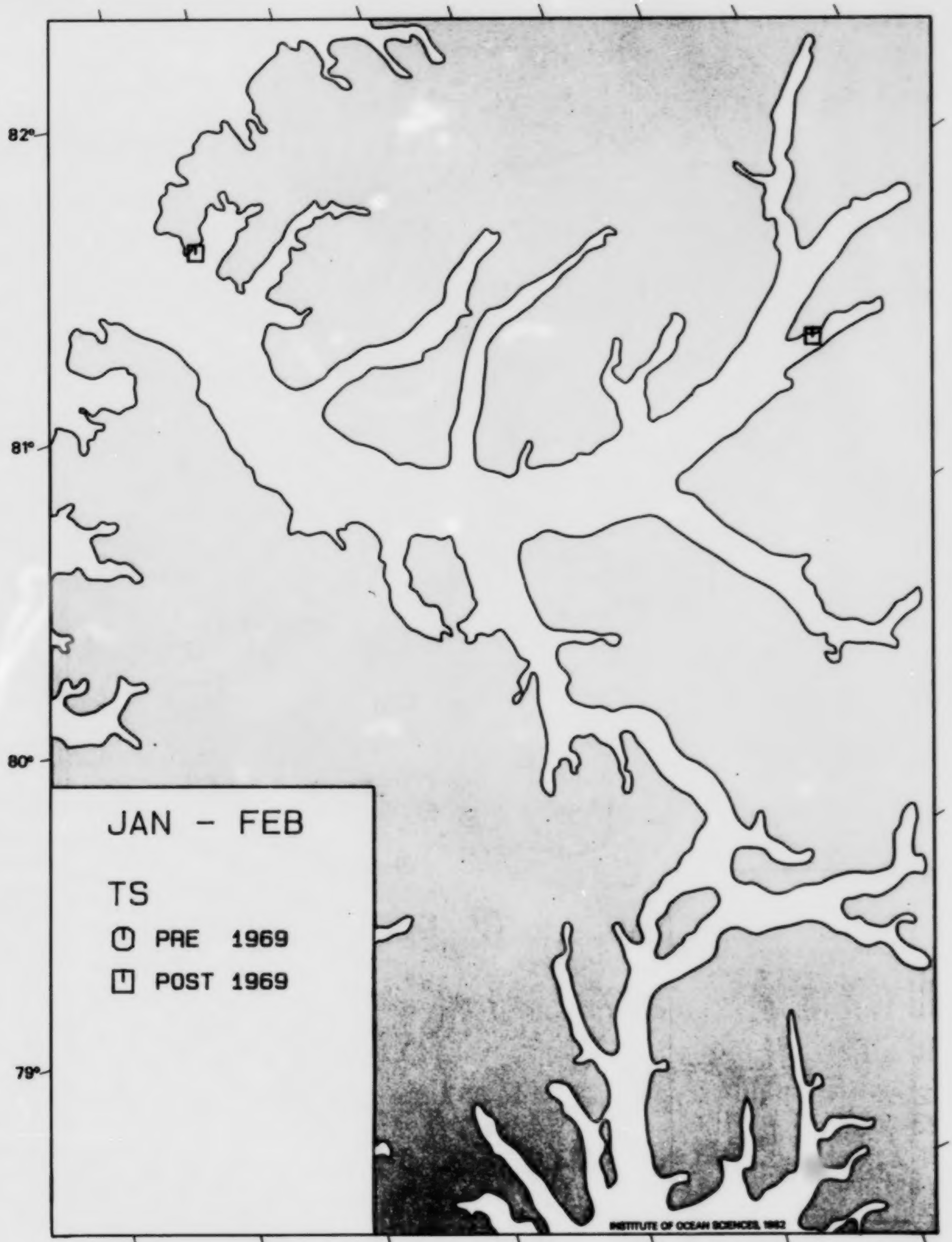
INSTITUTE OF OCEAN SCIENCES, 1982

Figure 7a: The locations of temperature-salinity data collected during the January-February period, all years (58 stations).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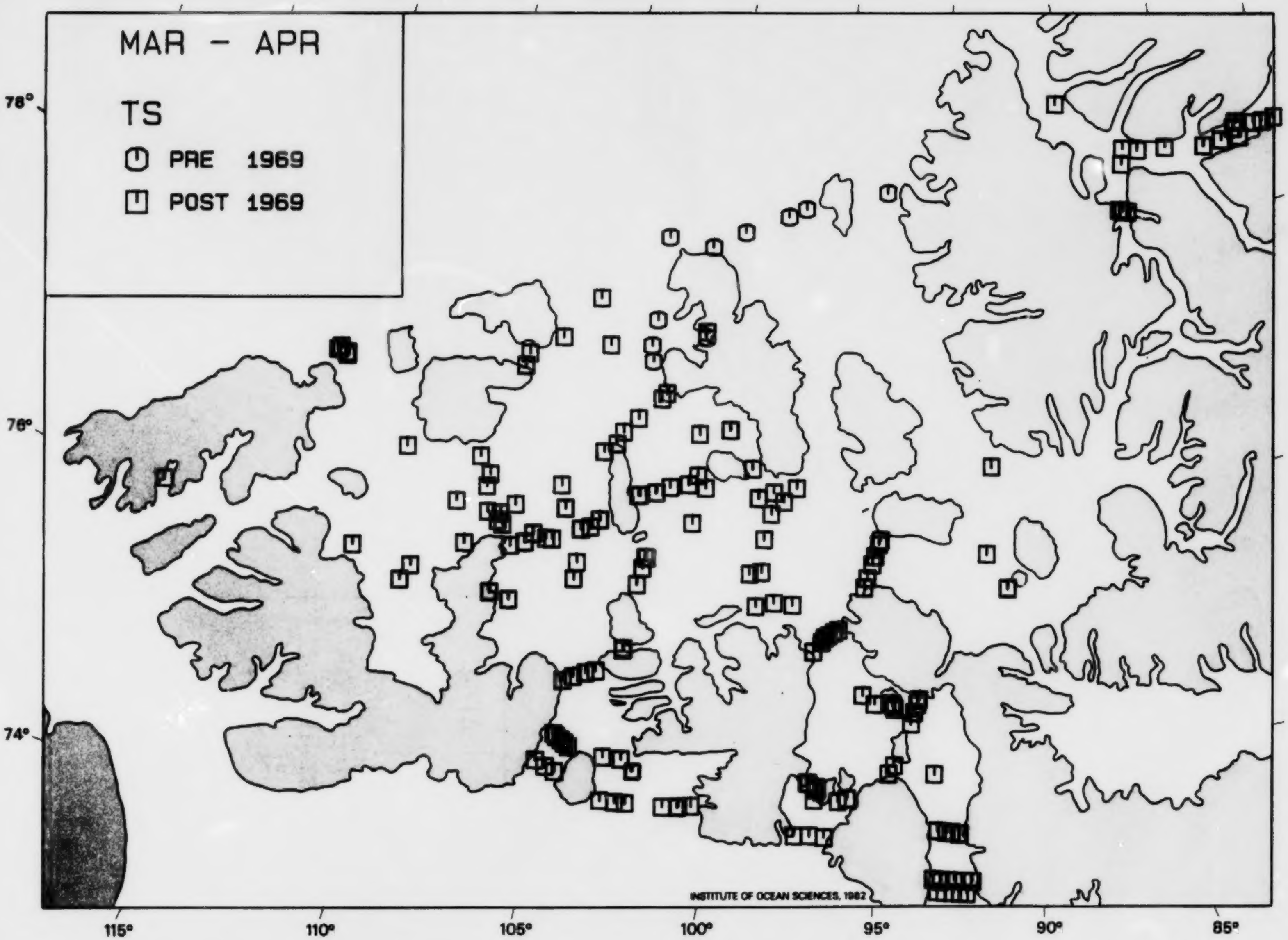
INSTITUTE OF OCEAN SCIENCES, 1982

Figure 7b: The locations of temperature-salinity data collected during the January-February period, all years, Nansen Sound region (6 stations).


MAR - APR
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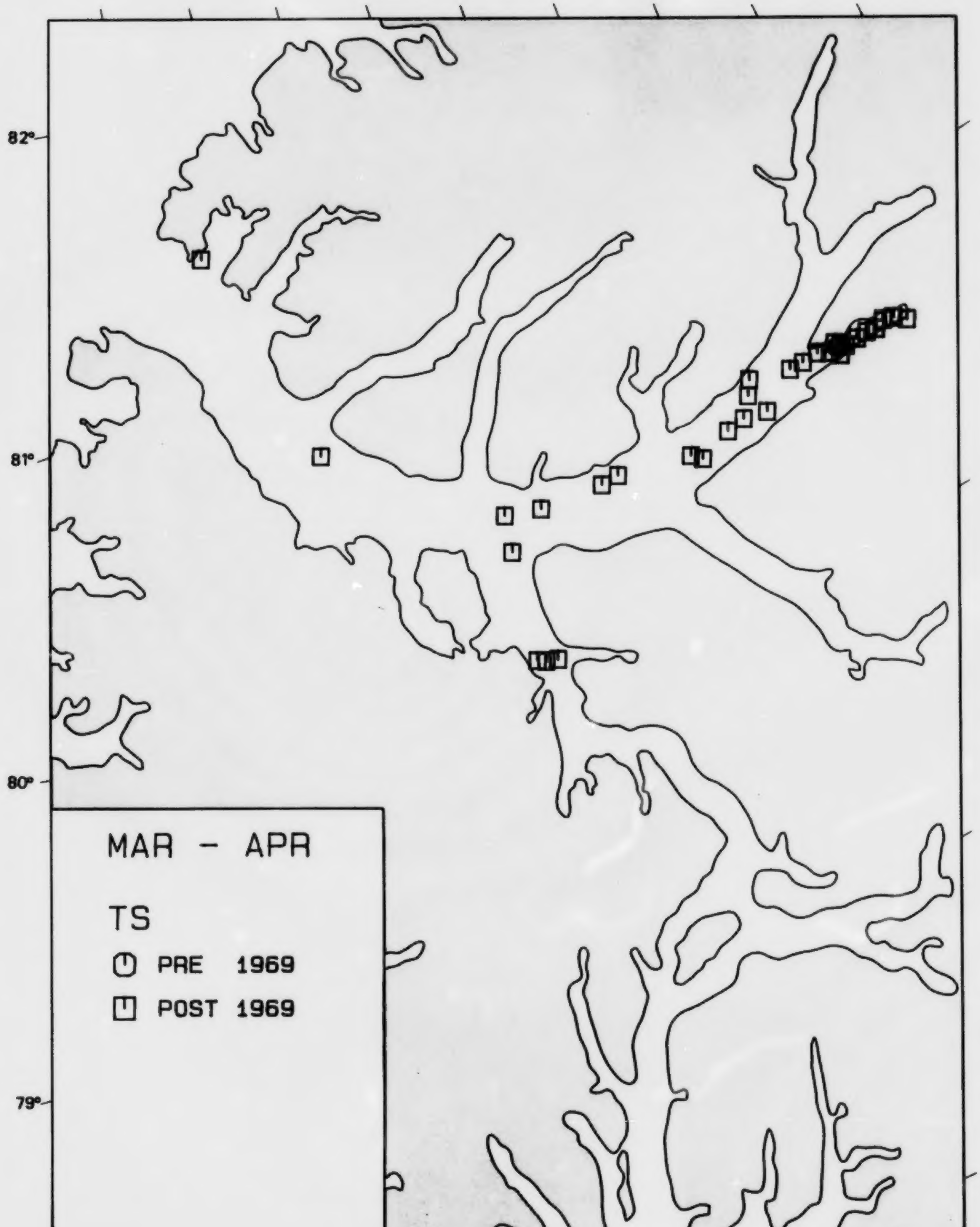
INSTITUTE OF OCEAN SCIENCES, 1982

Figure 8a: The locations of temperature-salinity data collected during the March-April period, all years (403 stations).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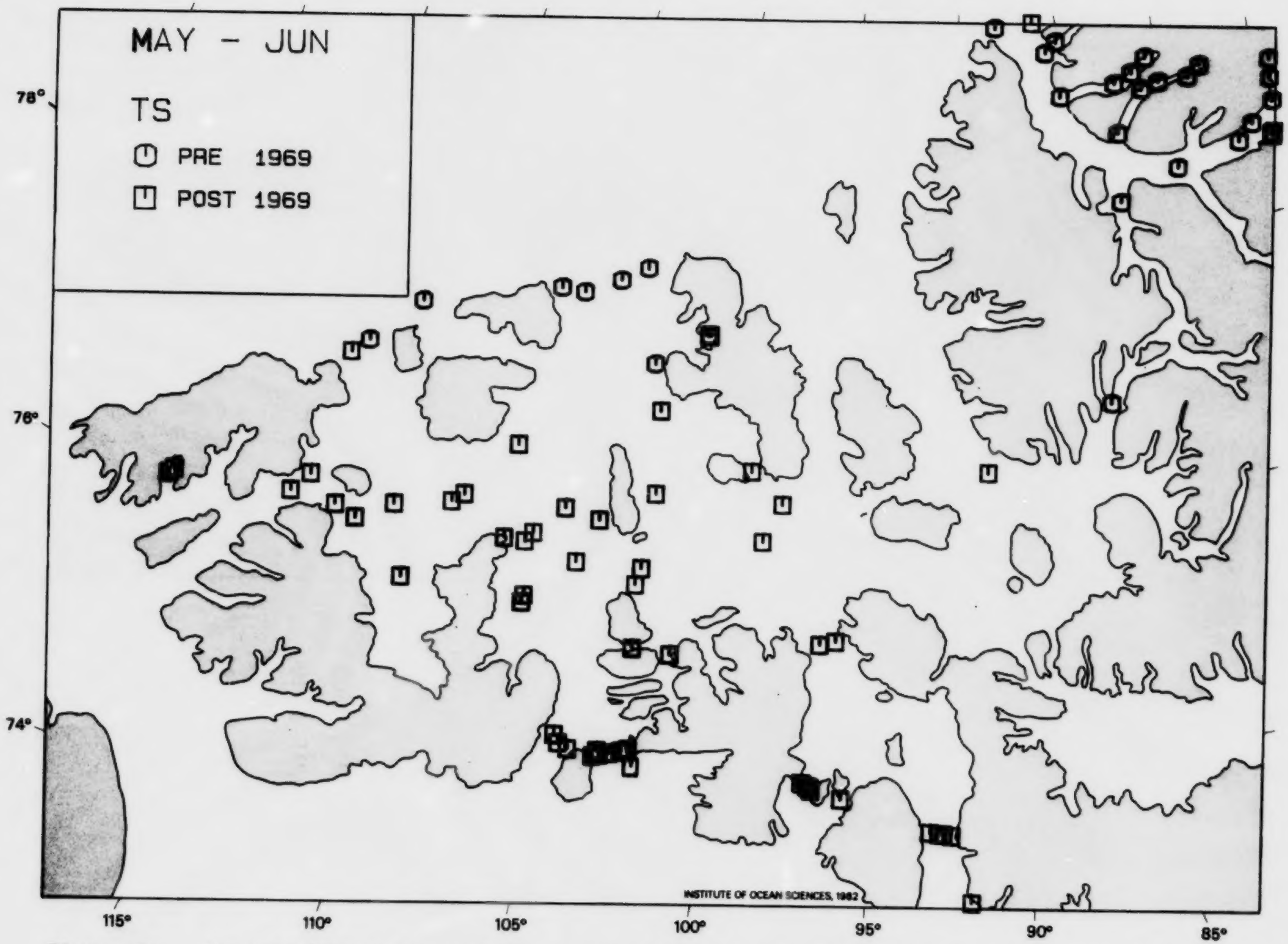
INSTITUTE OF OCEAN SCIENCES, 1982

Figure 8b: The locations of temperature-salinity data collected during the March-April period, all years, Nansen Sound region (118 stations).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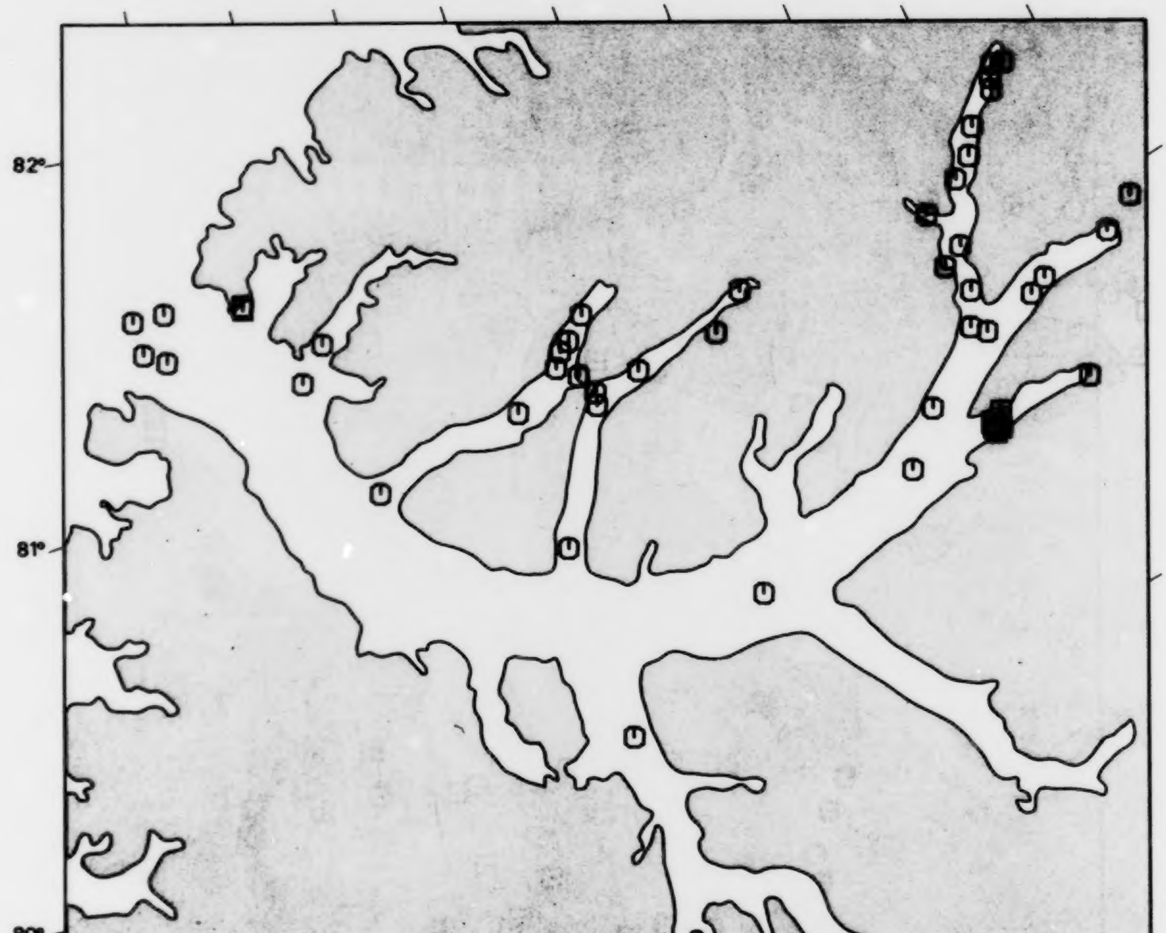
INSTITUTE OF OCEAN SCIENCES, 1982

Figure 9a: The locations of temperature-salinity data collected during the May-June period, all years (149 stations).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INSTITUTE OF OCEAN SCIENCES, 1982
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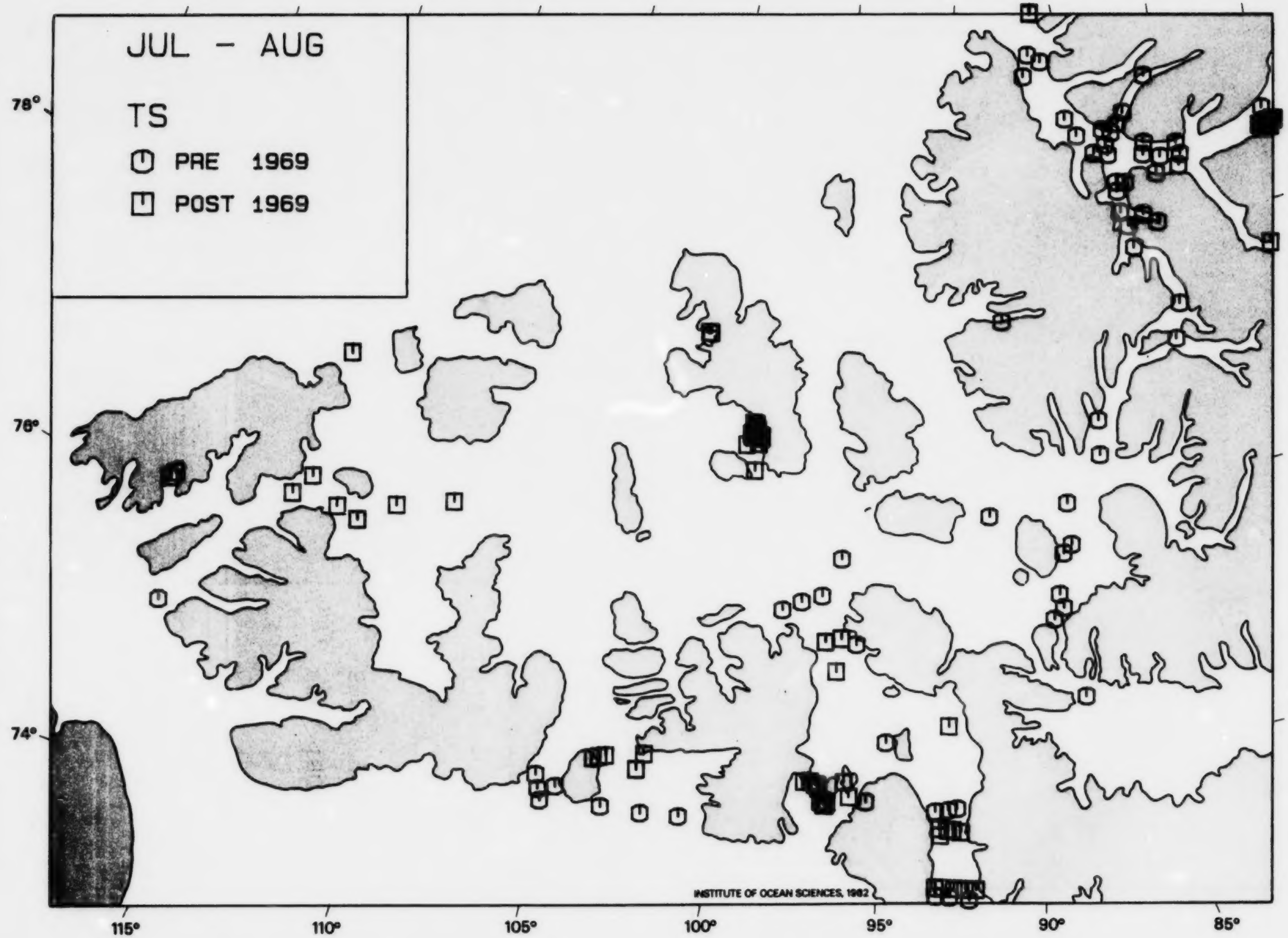
Figure 9b: The locations of temperature-salinity data collected during the May-June period, all years, Nansen Sound region (109 stations).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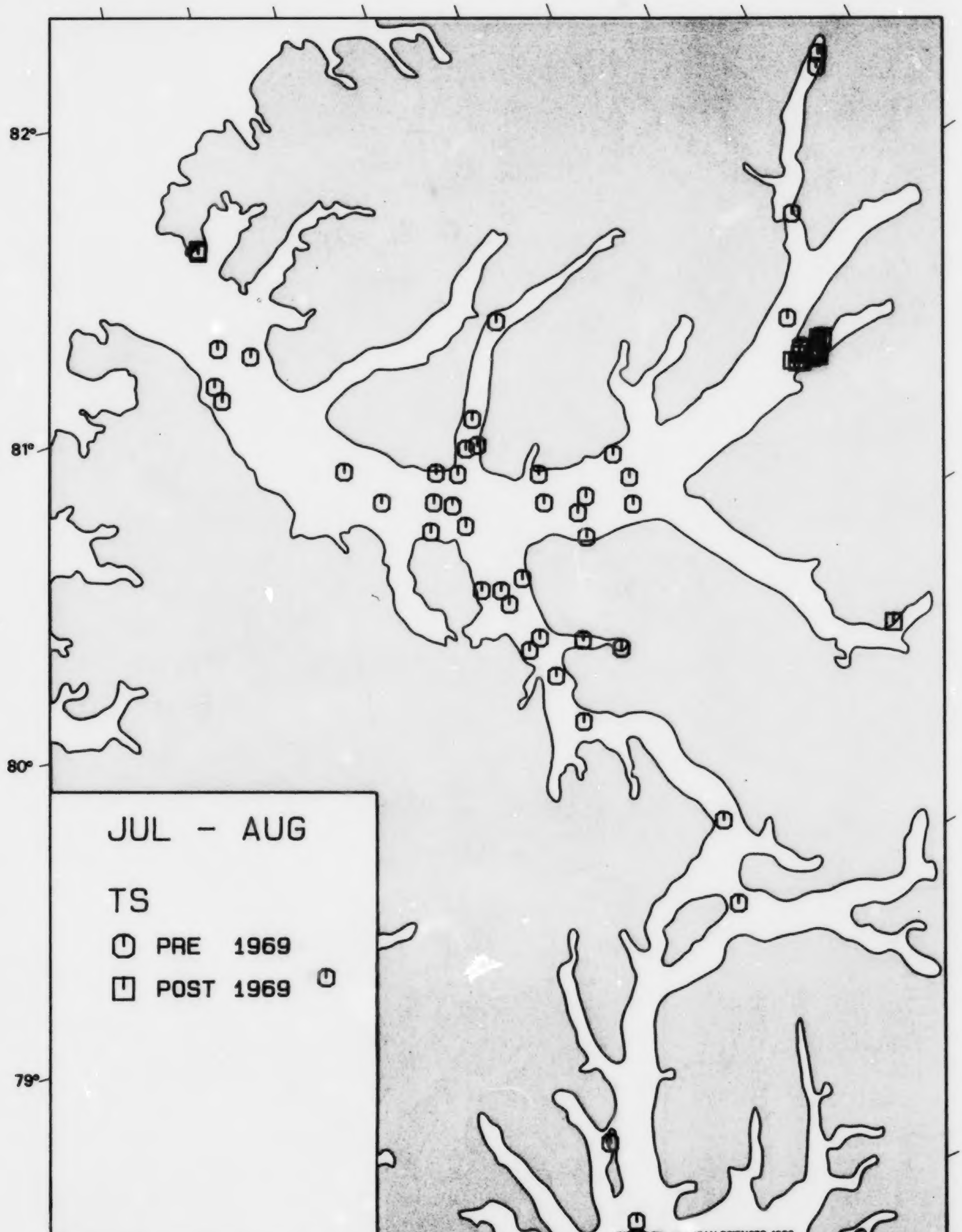
INSTITUTE OF OCEAN SCIENCES, 1982

Figure 10a: The locations of temperature-salinity data collected during the July-August period, all years (200 stns).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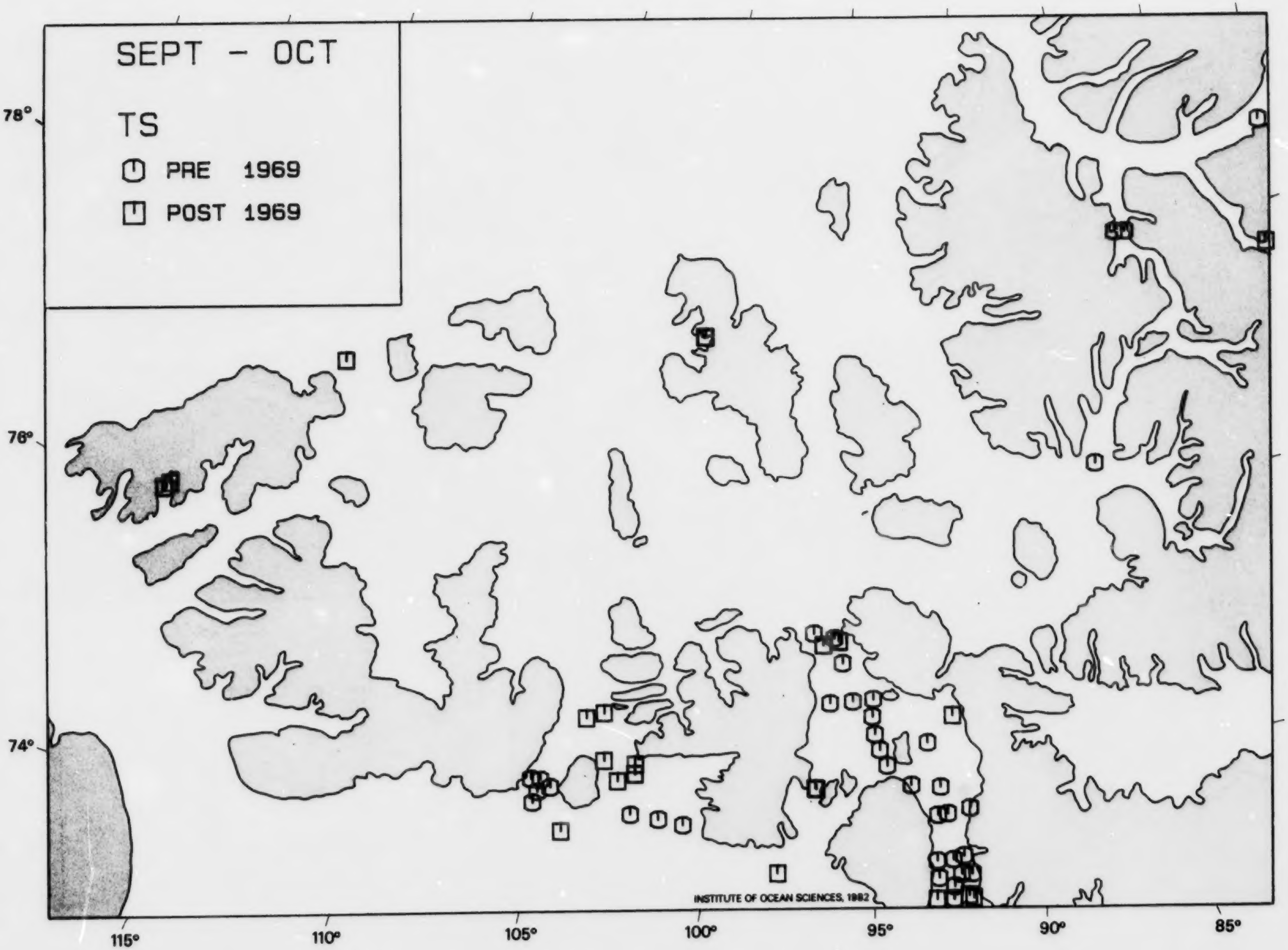
INSTITUTE OF OCEAN SCIENCES, 1982

Figure 10b: The locations of temperature-salinity data collected during the July-August period, all years, Nansen Sound region (120 stations).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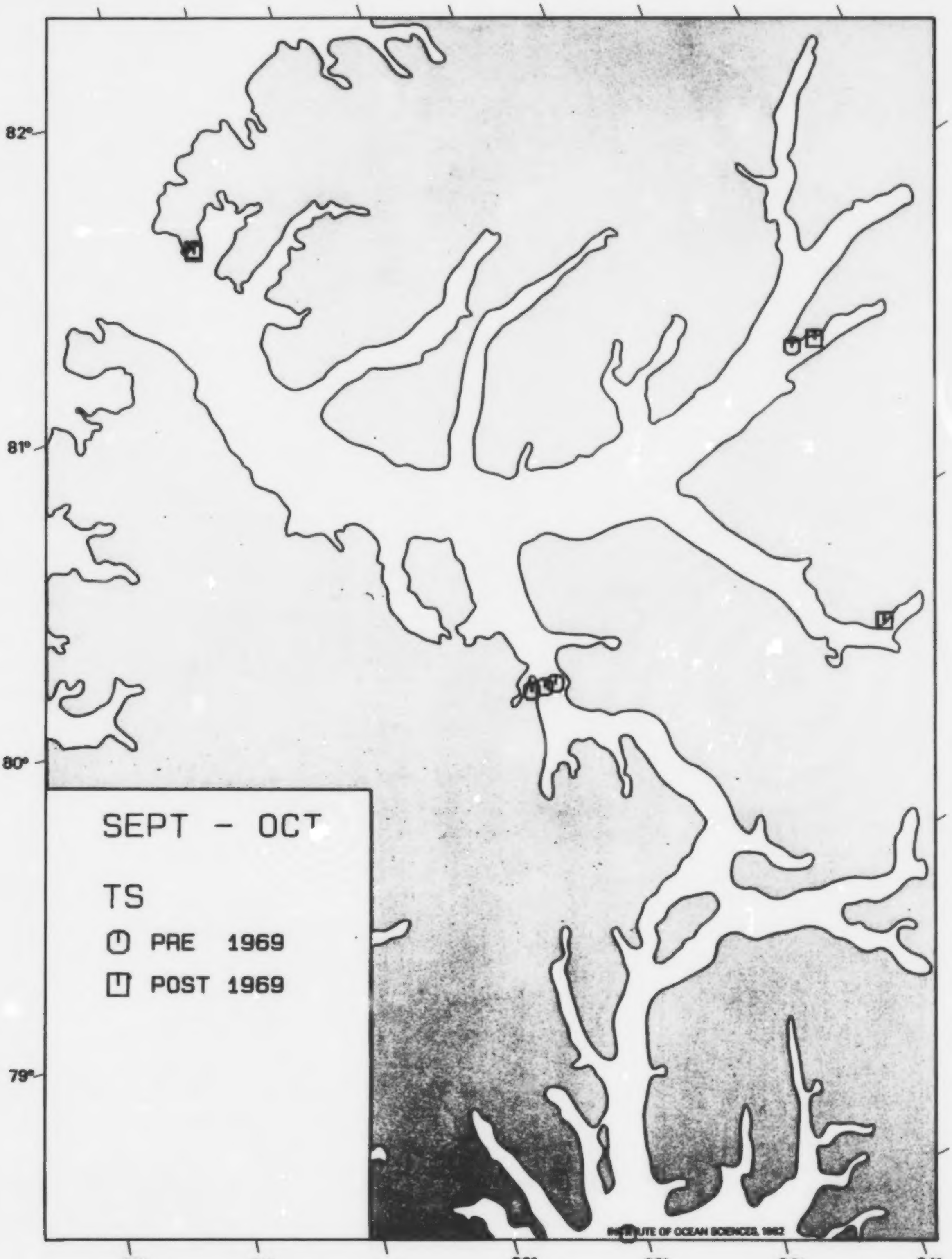
INSTITUTE OF OCEAN SCIENCES, 1982

Figure 11a: The locations of temperature-salinity data collected during the September-October period, all years (75 stns).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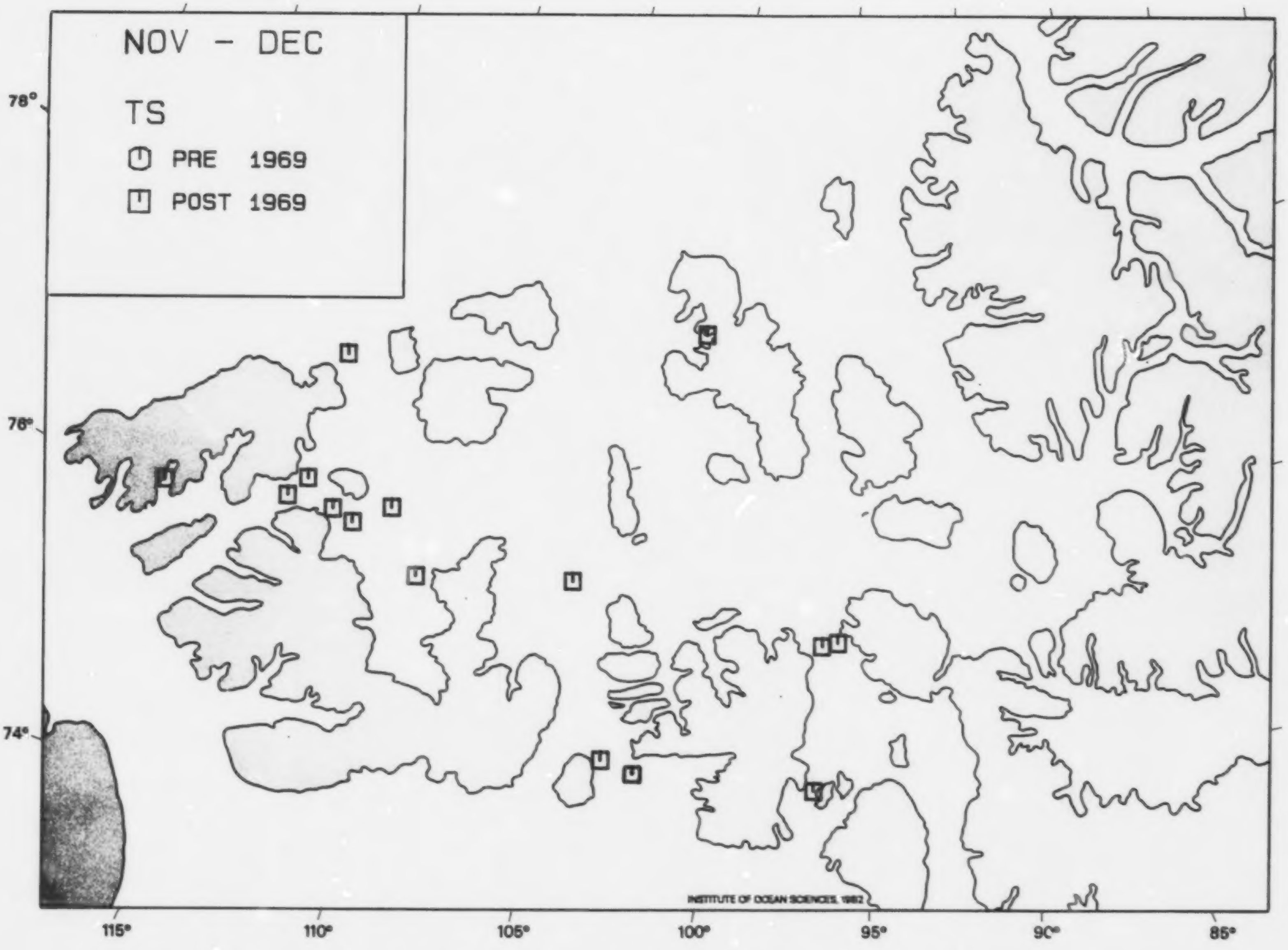
INSTITUTE OF OCEAN SCIENCES, 1982

Figure 11b: The locations of temperature-salinity data collected during the September-October period, all years, Nansen Sound region (12 stations).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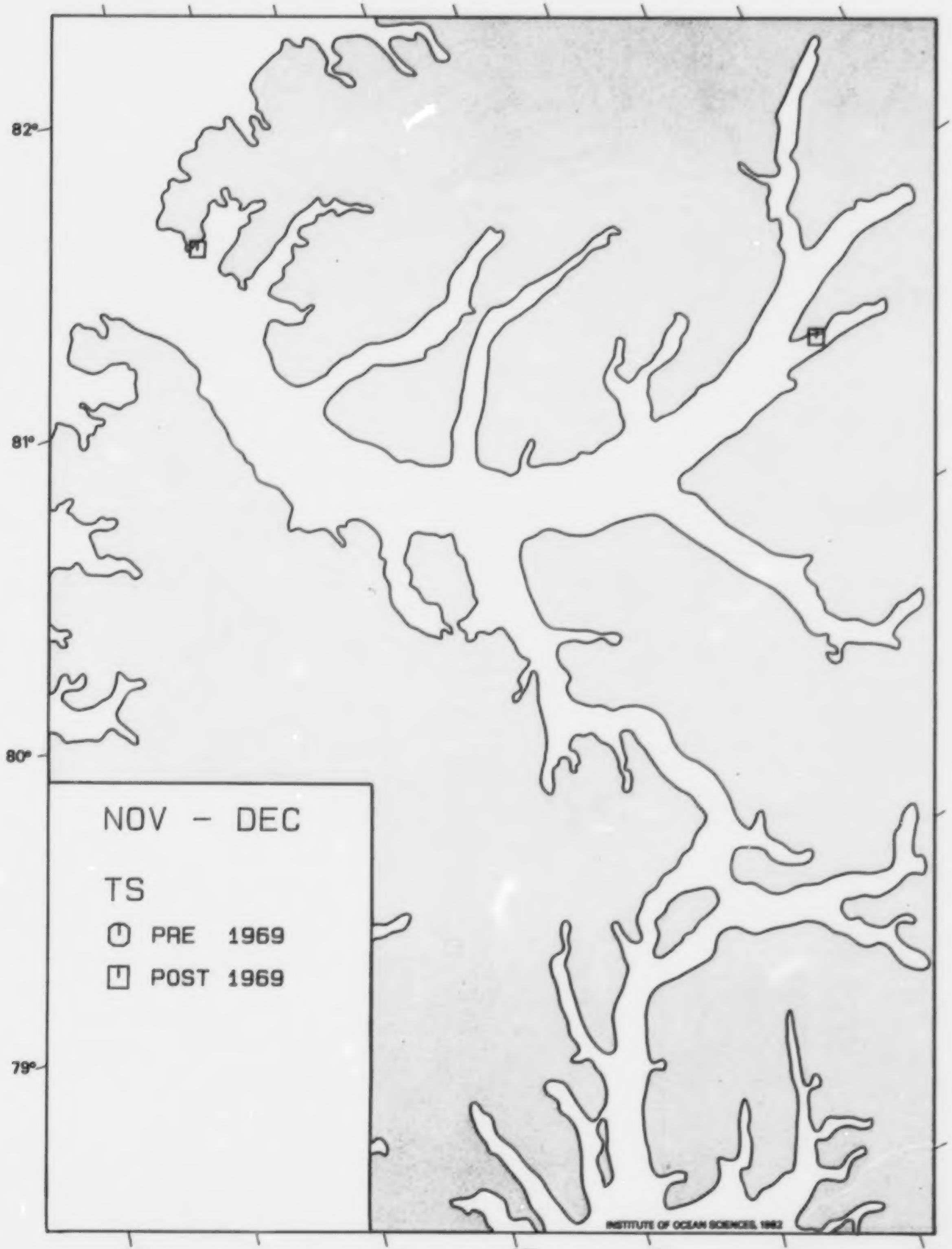
INSTITUTE OF OCEAN SCIENCES, 1982

Figure 12a: The locations of temperature-salinity data collected during the November-December period, all years (25 stations).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NOV - DEC
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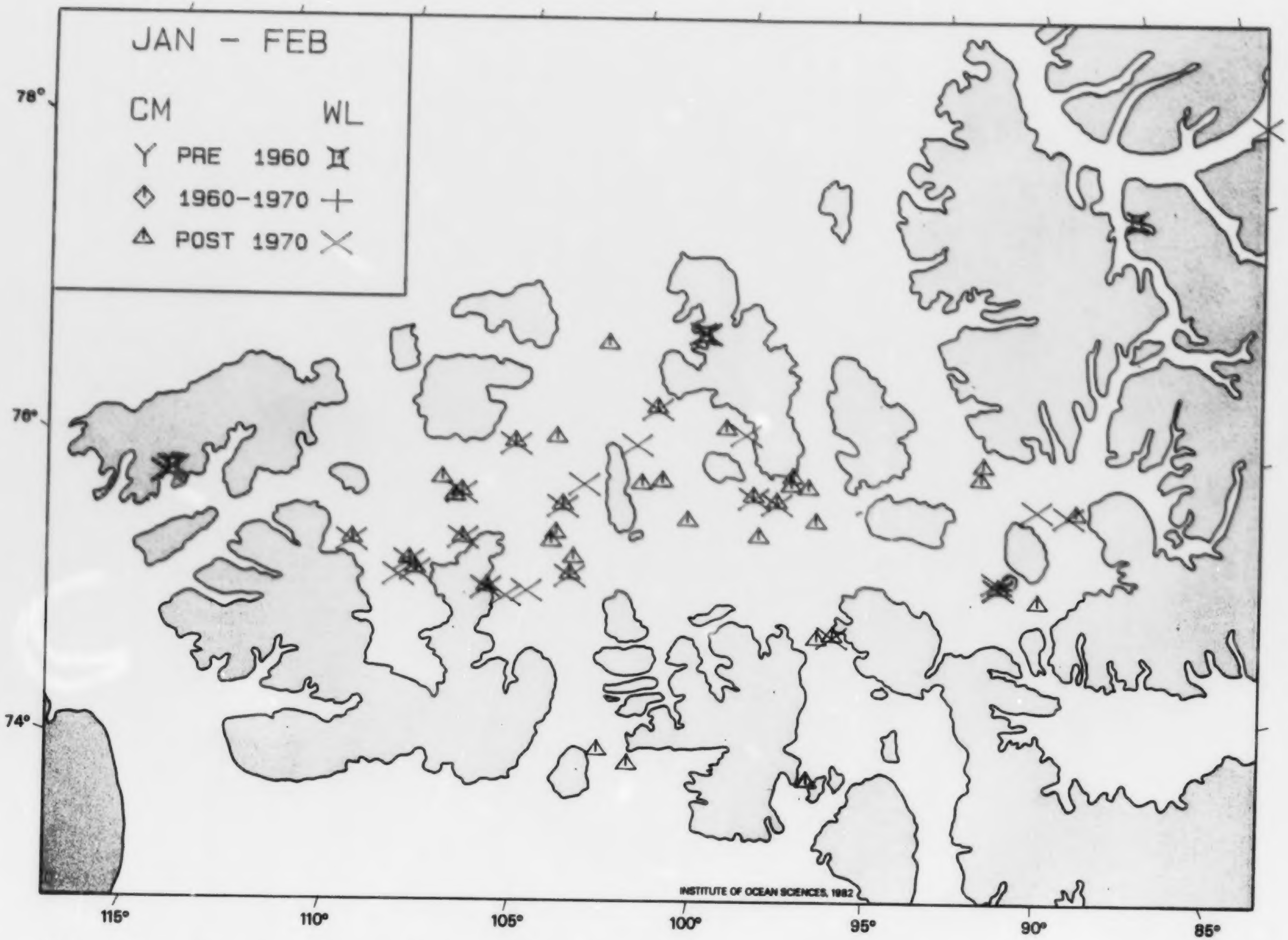
POST 1969
INSTITUTE OF OCEAN SCIENCES, 1982

Figure 12b: The locations of temperature-salinity data collected during the November-December period, all years, Nansen Sound region (5 stations).


JAN - FEB
CM
WL
PRE 1960
1960-1970
POST 1970
78°
76°
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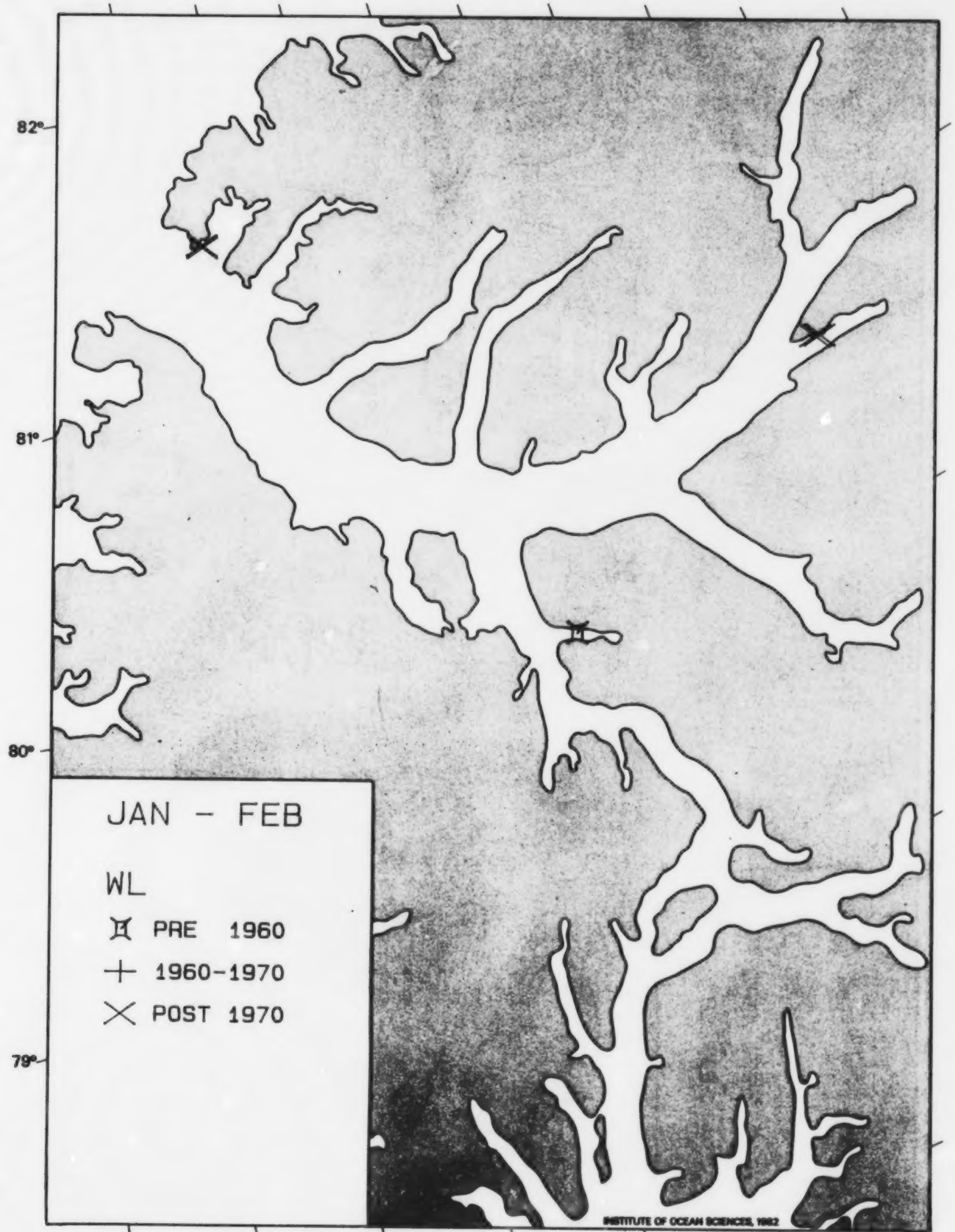
INSTITUTE OF OCEAN SCIENCES, 1982

Figure 13a: The locations of all current-meter (CM) and water-level (WL) stations in place during the January-February period, all years (56 CM, 48 WL).



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JAN - FEB
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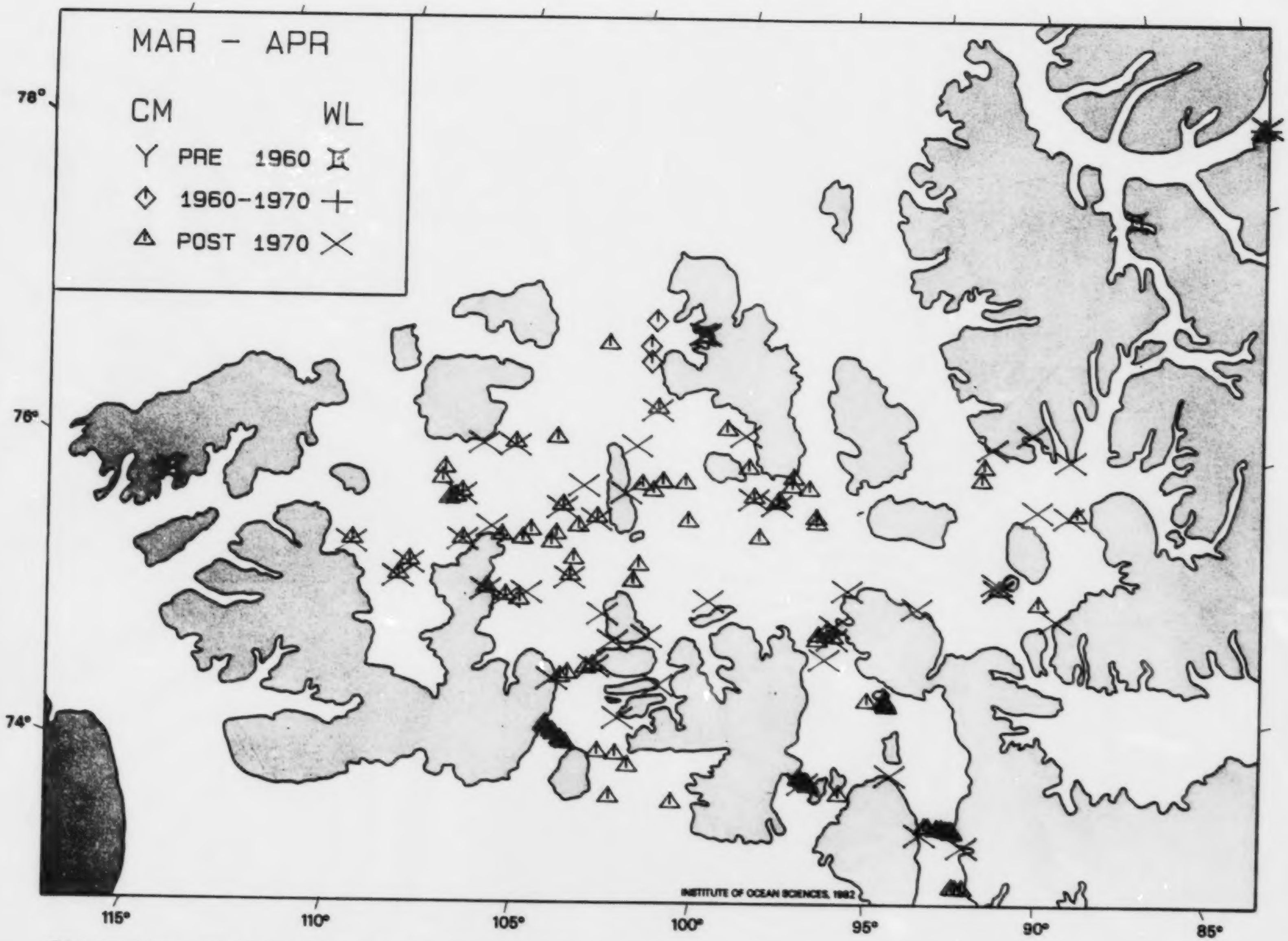
POST 1970
INSTITUTE OF OCEAN SCIENCES, 1982

Figure 13b: The locations of all current-meter (CM) and water-level (WL) stations in place during the January-February period, all years, Nansen Sound region (no CM, 8 WL).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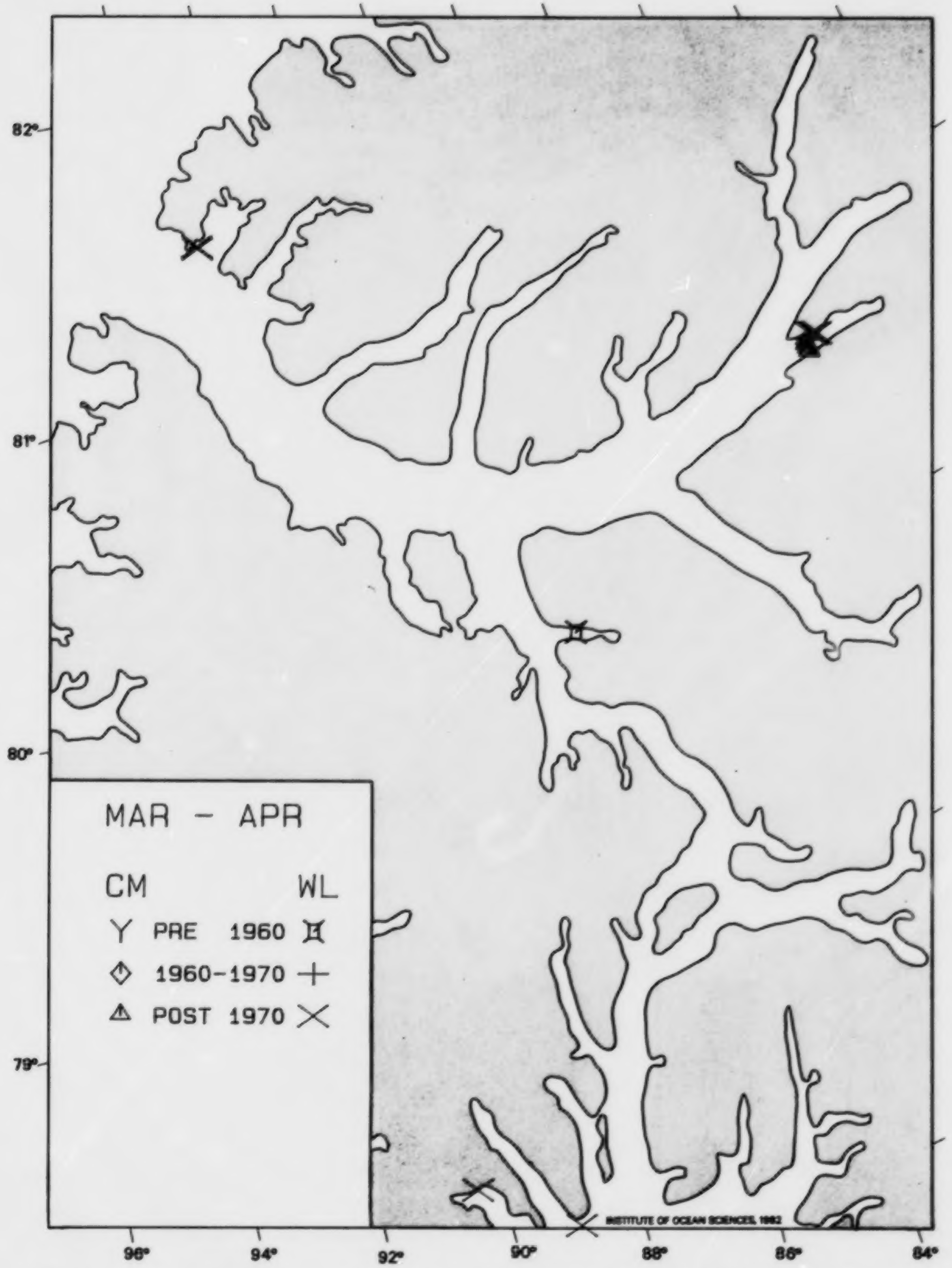
INSTITUTE OF OCEAN SCIENCES, 1982

Figure 14a: The locations of all current-meter (CM) and water-level (WL) stations in place during the March-April period, all years (173 CM, 69 WL).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MAR - APR
CM
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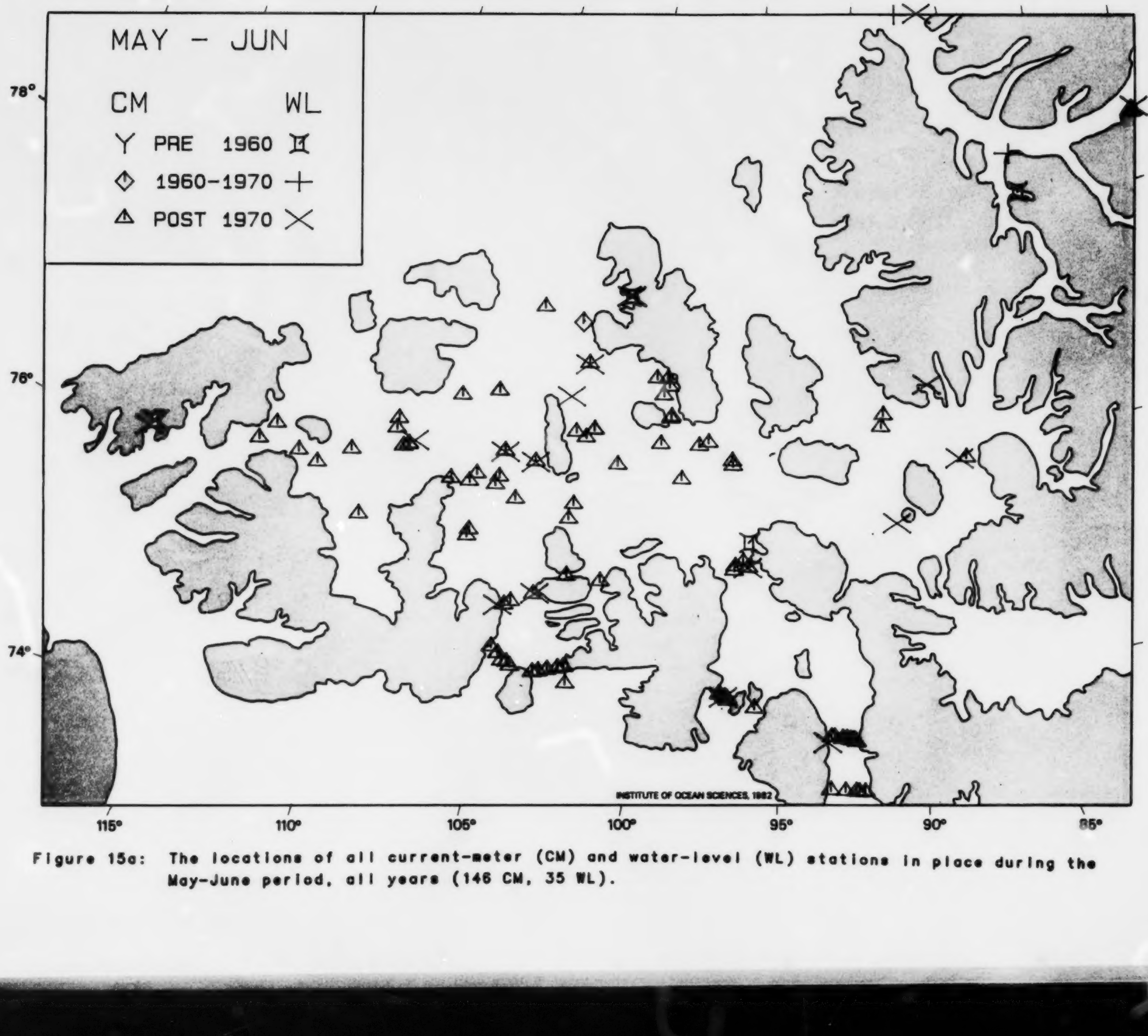
PRE 1960
1960-1970
POST 1970
INSTITUTE OF OCEAN SCIENCES, 1982

Figure 14b: The locations of all current-meter (CM) and water-level (WL) stations in place during the March-April period, all years, Nansen Sound region (7 CM, 16 WL).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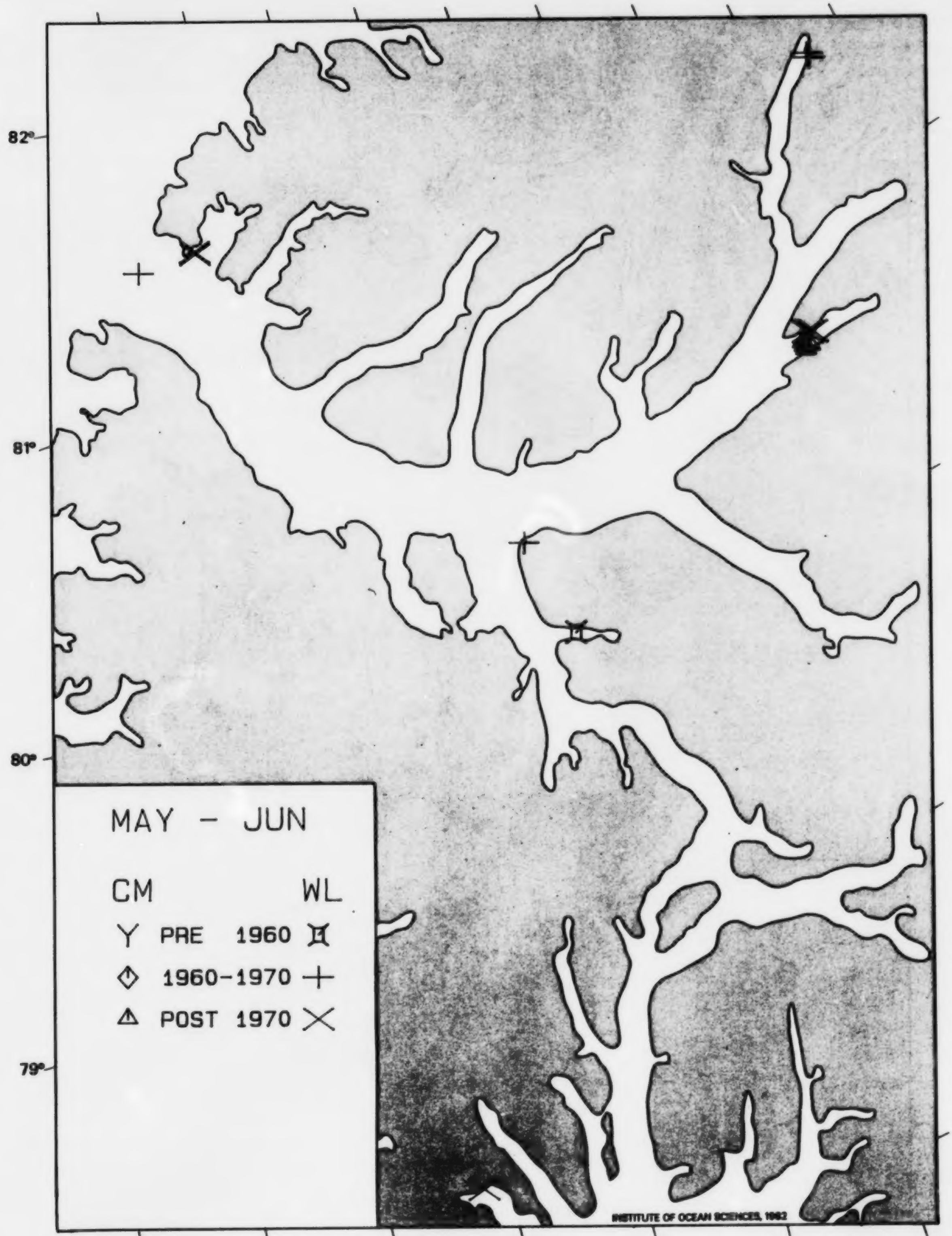
INSTITUTE OF OCEAN SCIENCES, 1982

Figure 15a: The locations of all current-meter (CM) and water-level (WL) stations in place during the May-June period, all years (146 CM, 35 WL).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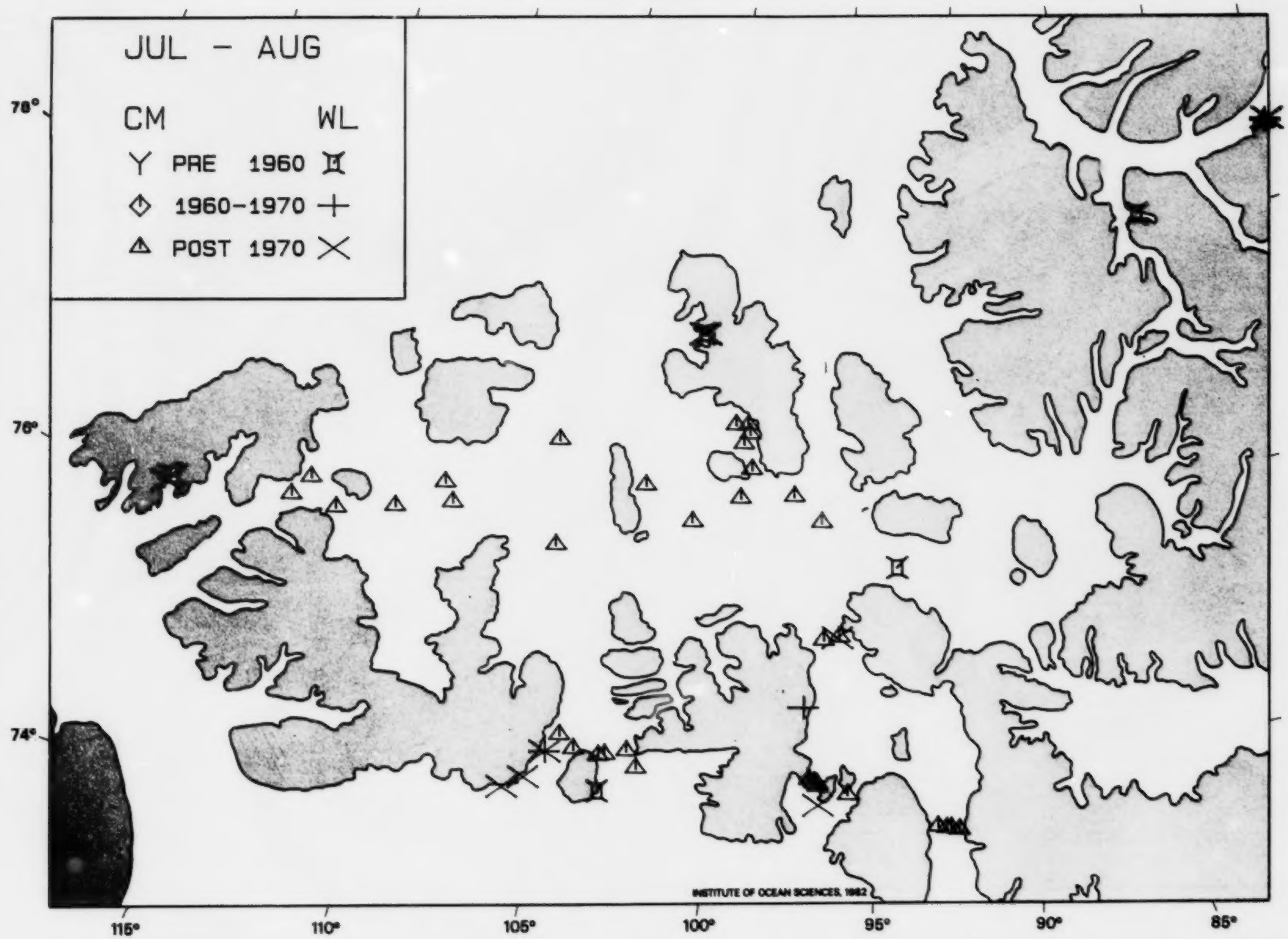
INSTITUTE OF OCEAN SCIENCES, 1982

Figure 15b: The locations of all current-meter (CM) and water-level (WL) stations in place during the May-June period, all years, Nansen Sound region (10 CM, 17 WL).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INSTITUTE OF OCEAN SCIENCES, 1982

Figure 16a: The locations of all current-meter (CM) and water-level (WL) stations in place during the July-August period, all years (55 CM, 30 WL).

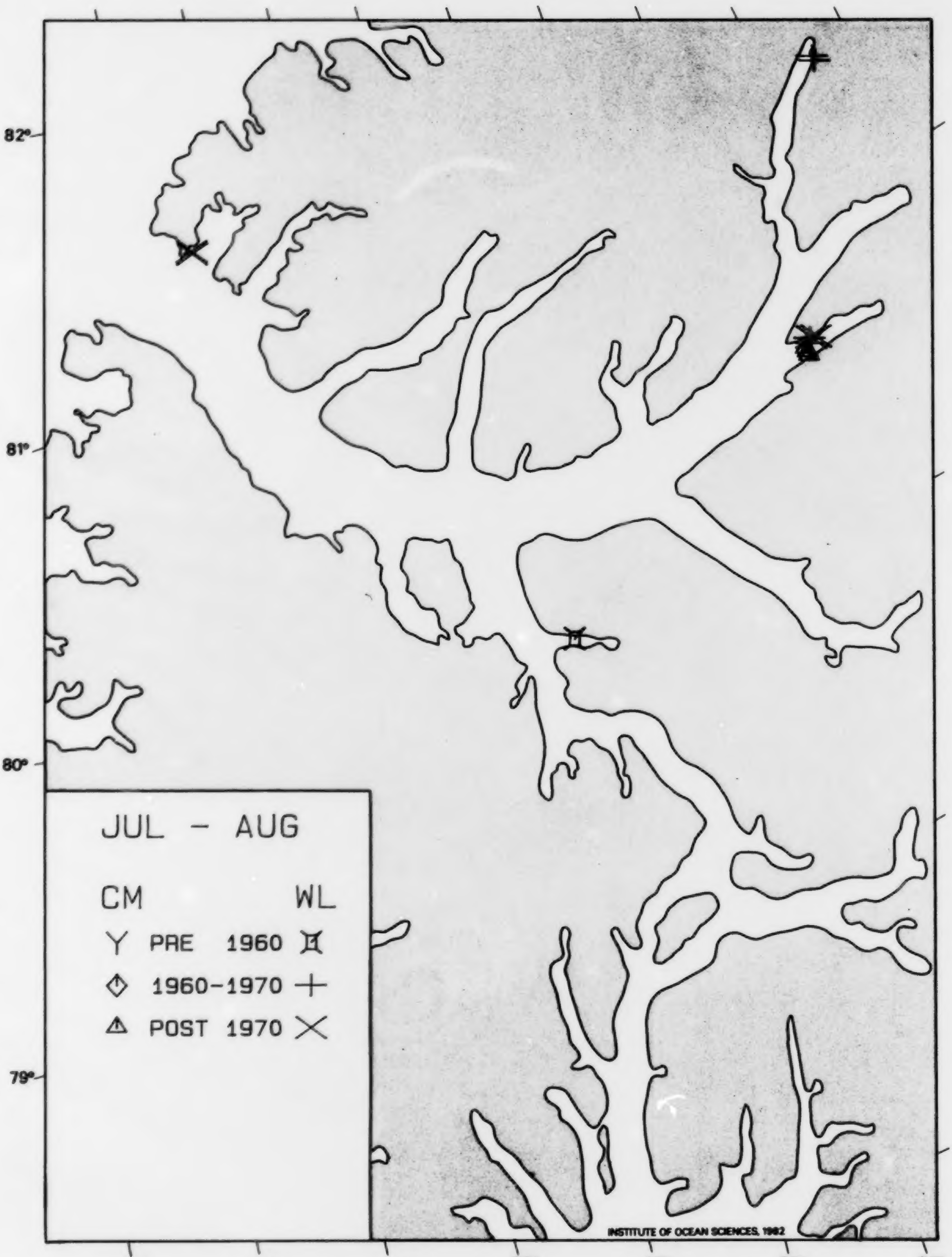
82°
81°
80°
79°
96°
94°
92°
90°
88°
86°
84°
JUL - AUG
CM
WL
Y PRE 1960 ⌖
◇ 1960-1970 +
△ POST 1970 ×
INSTITUTE OF OCEAN SCIENCES, 1982

Figure 16b: The locations of all current-meter (CM) and water-level (WL) stations in place during the July-August period, all years, Nansen Sound region (6 CM, 16 WL).

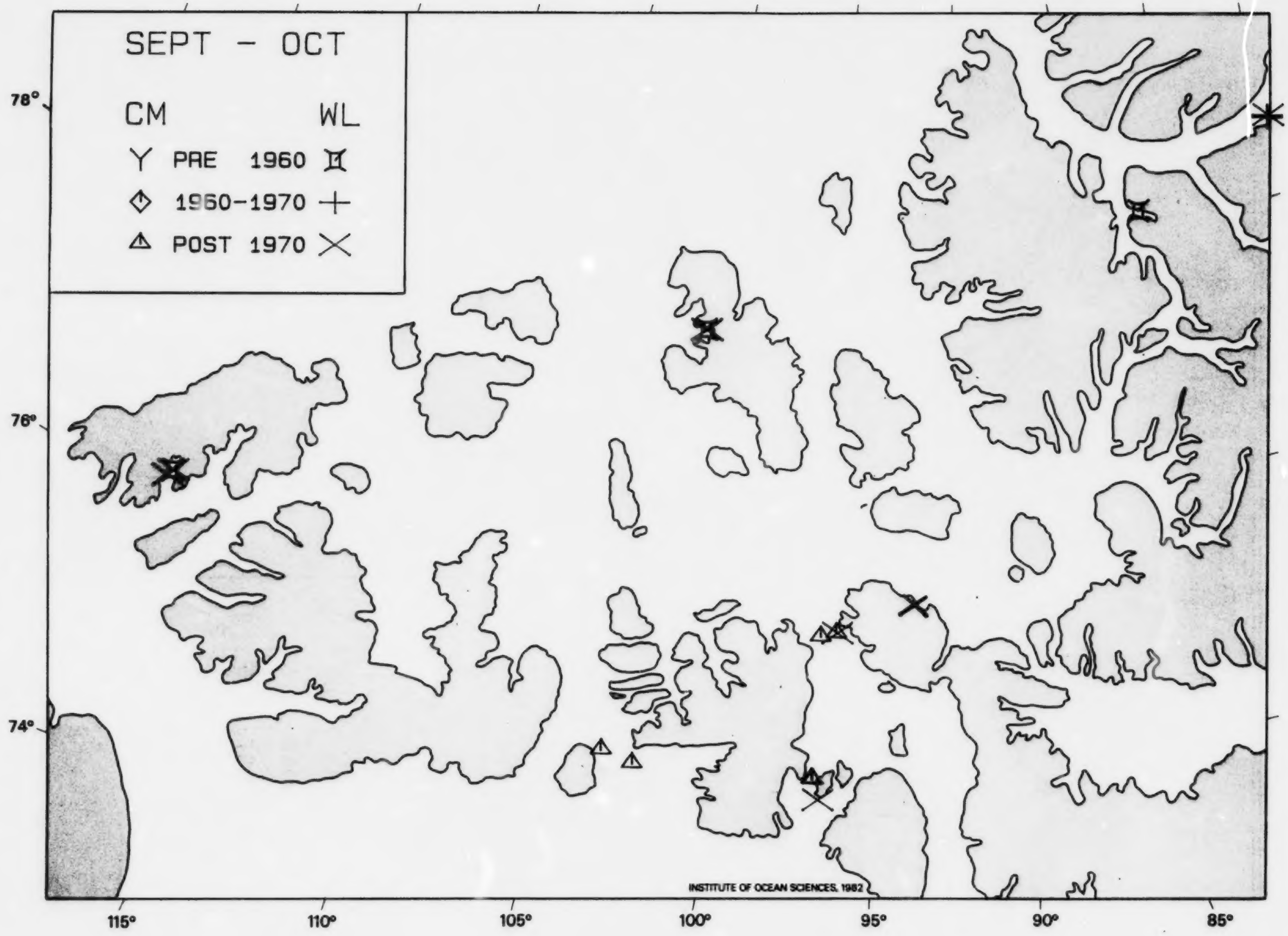
SEPT - OCT
CM
WL
Y PRE 1960 ⌑
◇ 1960-1970 +
△ POST 1970 ×
78°
76°
74°
115°
110°
105°
100°
95°
90°
85°
INSTITUTE OF OCEAN SCIENCES, 1982

Figure 17a: The locations of all current-meter (CM) and water-level (WL) stations in place during the September-October period, all years (9 CM, 15 WL).

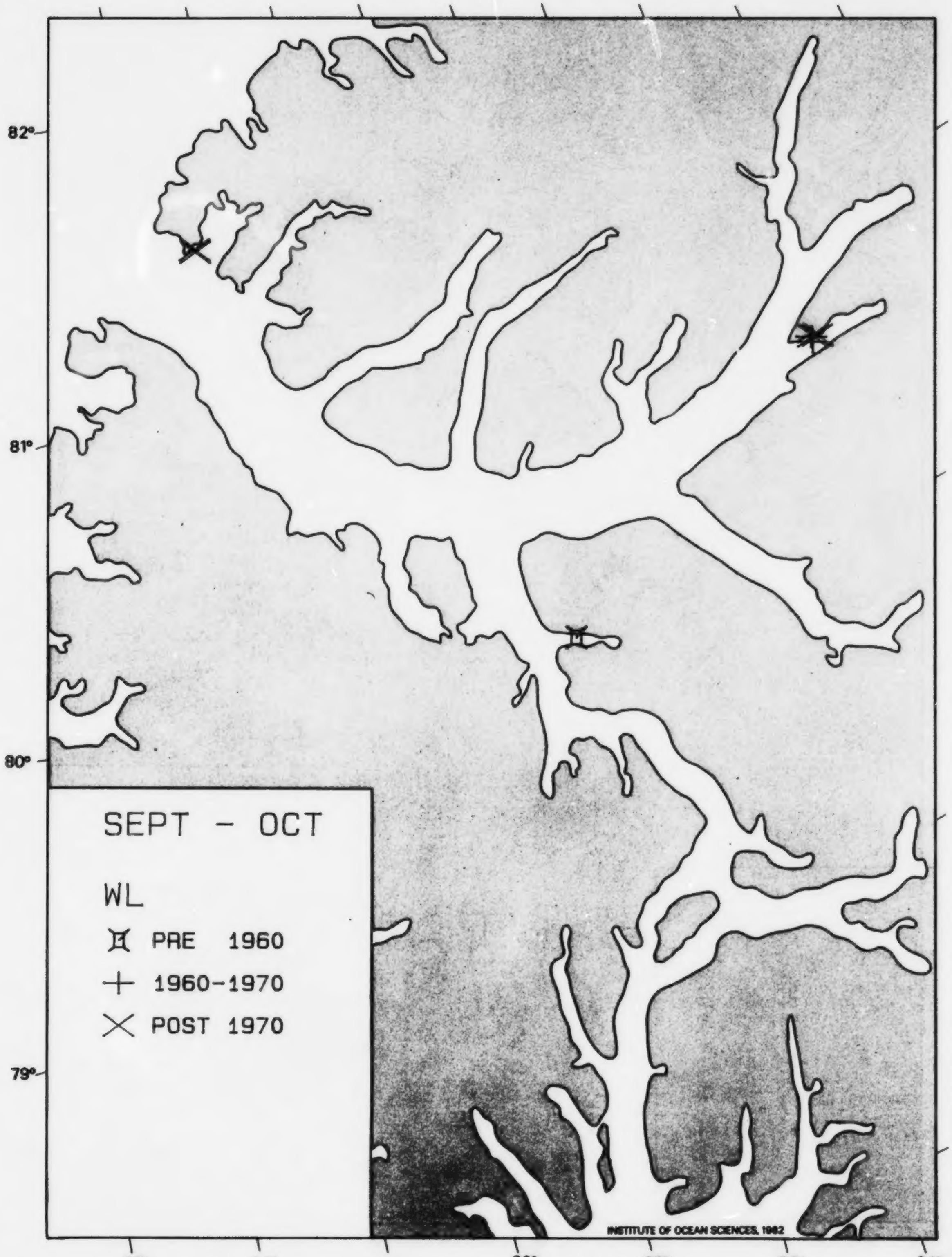
82°
81°
80°
79°
96°
94°
92°
90°
88°
86°
84°
SEPT - OCT
WL
PRE 1960
1960-1970
POST 1970
INSTITUTE OF OCEAN SCIENCES, 1982

Figure 17b: The locations of all current-meter (CM) and water-level (WL) stations in place during the September-October period, all years, Nansen Sound region (No CM, 10 WL).

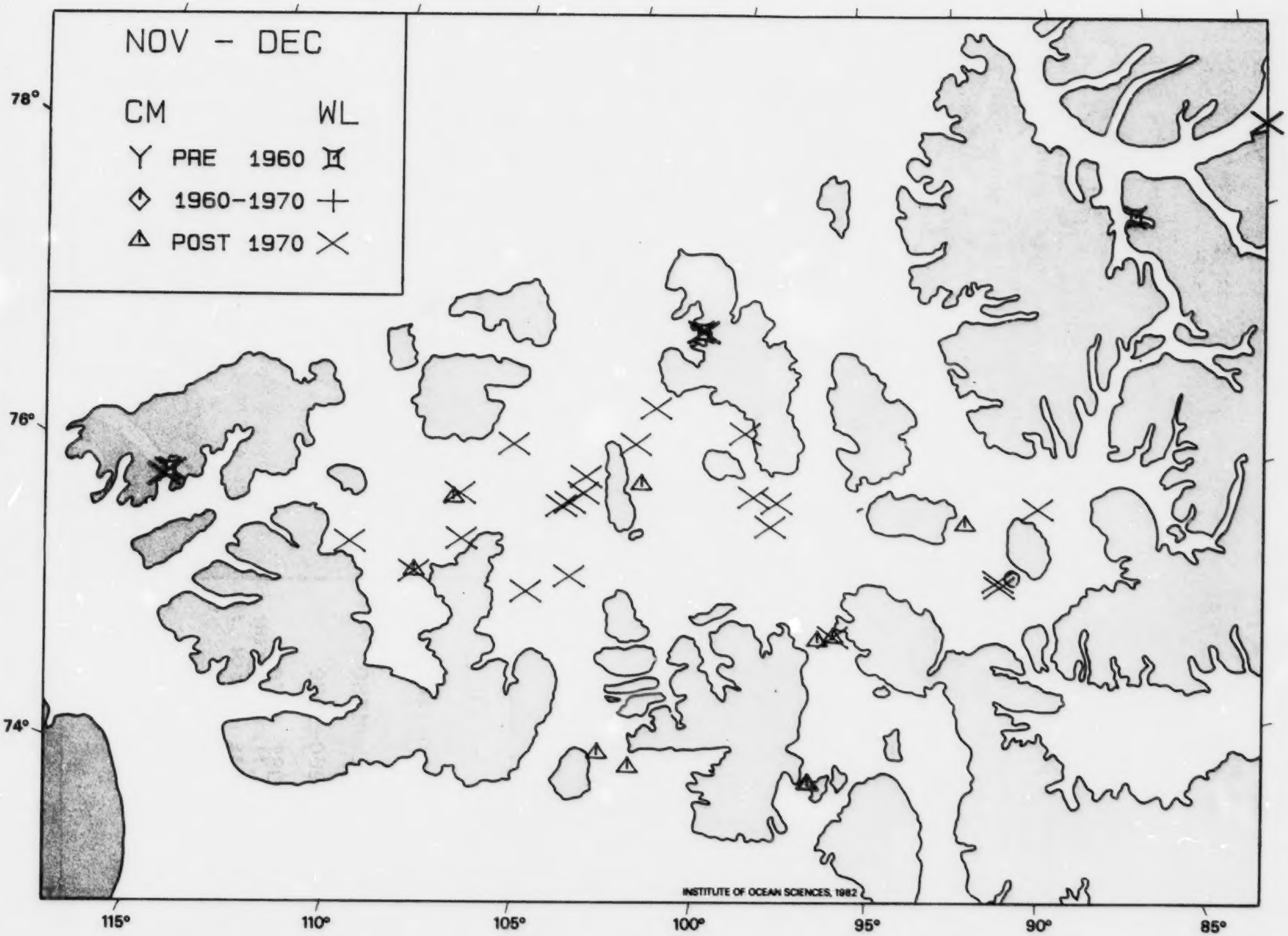
NOV - DEC
CM
WL
PRE 1960
1960-1970
POST 1970
78°
76°
74°
115°
110°
105°
100°
95°
90°
85°
INSTITUTE OF OCEAN SCIENCES, 1982

Figure 18a: The locations of all current-meter (CM) and water-level (WL) stations in place during the November-December period, all years (15 CM, 36 WL).

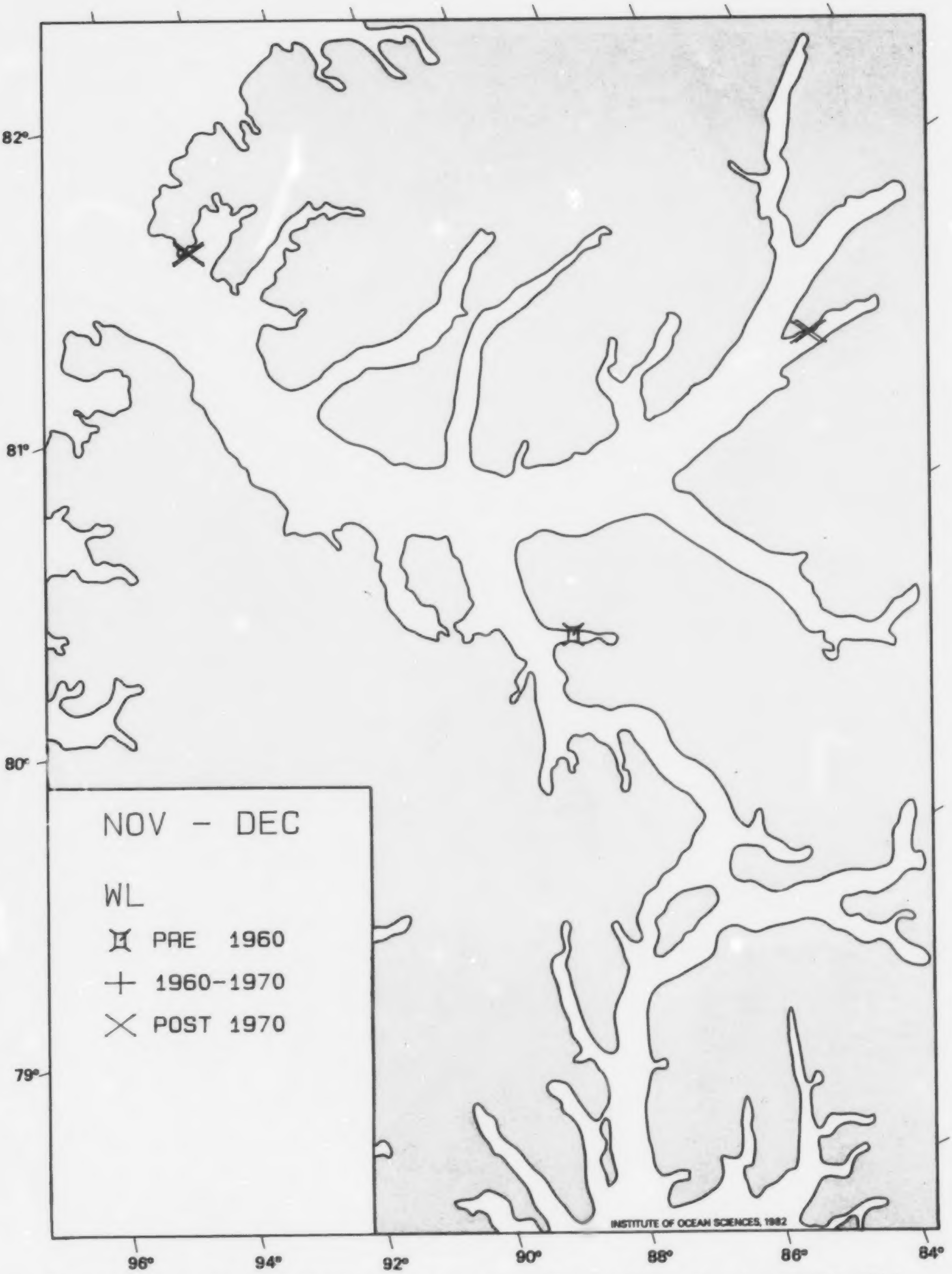
82°
81°
80°
79°
NOV - DEC
WL
PRE 1960
1960-1970
POST 1970
INSTITUTE OF OCEAN SCIENCES, 1982
96°
94°
92°
90°
88°
86°
84°

Figure 18b: The locations of all current-meter (CM) and water-level (WL) stations in place during the November-December period, all years, Nansen Sound region (No CM, 8 WL).

The predominance of measurements in the winter and spring months results from the suitability of the ice cover as a stable platform from which to collect data, beginning in the month of December. With the lengthening period of daylight hours in the spring, the months of April and May offer the best conditions for working from the ice. Surface melt begins to hinder operations from the ice commencing in June or July.

## 6.3 SYNOPTIC DATA SETS AND EXTENDED TIME SERIES

### SYNOPTIC DATA SETS

In some years the existence of two or more data sets collected at the same time provides a combined data set with near-synoptic coverage over a relatively large area. Data sets were considered near-synoptic if their measurement periods overlapped significantly. The combined data sets may improve coverage within a given area, extend coverage to a larger area or allow comparison of simultaneous processes in different areas. The table below lists near-synoptic data sets by year and general area of coverage.

| Data Set | ID | Area |
|---|---|---|
| | **1961** | |
| 1961-0003 | | Wellington Channel |
| 1961-0004 | | Wellington Channel |
| | **1967** | |
| 1967-0002 | | Nansen Sound |
| 1967-0005 | | Nansen Sound |
| | **1976** | |
| 1976-0016 | | Penny Strait, Belcher Channel |
| 1976-0017 | | Byam Channel, Austin Channel |
| | **1978** | |
| 1978-0007 | | Byam Martin Channel, McDougall Sound, Wellington Channel |
| 1978-0011 | | Norwegian Bay, Edingburgh Sea |
| 1978-0012 | | Wellington Channel, McDougall Sound |
| 1978-0013 | | Hazen Strait |
| | **1979** | |
| 1978-0013 | | Central Queen Elizabeth Islands (Hazen Strait, W. Lougheed Island, Desbarats Strait, MacLean Strait) |
| 1978-0014 | | |
| 1979-0017 | | |
| 1979-0018 | | |
| 1979-0019 | | |
| | **1979-80** | |
| 1979-0020 | | Hazen Strait, W. Lougheed Island |
| 1979-0022 | | Hazen Strait, Edingburgh Sea |

| Data Set | ID | Area |
|---|---|---|
| | 1983 | |
| 1983-0005 | | Prince Gustaf Adolf Sea |
| 1983-0008 | | Byam Martin Channel, Austin Channel |

## EXTENDED TIME SERIES

### Temperature-Salinity

Repeated measurements in the same area may allow long-term trends to be detected and levels of variability to be estimated. Repeated temperature and salinity measurements have been made in several areas. The table below lists the areas in which extended time series are available.

| Nansen Sound/ Eureka Sound | | Wellington Channel/ Queens Channel | Norwegian Bay/ Belcher Channel | Byam Martin Channel |
|---|---|---|---|---|
| 1948-0001 | 1967-0005 | 1957-0003 | 1952-0003 | 1954-0001 |
| 1952-0003 | 1969-0014 | 1960-0005 | 1961-0003 | 1961-0003 |
| 1961-0003 | 1969-0015 | 1961-0003 | 1962-0006 | 1962-0006 |
| 1962-0005 | 1970-0017 | 1962-0006 | 1967-0002 | 1964-0004 |
| 1962-0006 | 1971-0015 | 1967-0002 | 1968-0001 | 1976-0017 |
| 1963-0010 | 1973-0013 | 1968-0001 | 1976-0016 | 1977-0016 |
| 1964-0008 | 1974-0025 | 1973-0008 | 1978-0011 | 1978-0007 |
| 1965-0005 | 1975-0039 | 1973-0006 | 1983-0005 | 1979-0019 |
| 1966-0010 | 1976-0018 | 1978-0012 | 1984-0059 | 1982-0003 |
| 1967-0002 | 1977-0019 | 1981-0007 | | 1983-0008 |
| | 1983-0004A | 1982-0107 | | 1986-0018 |
| | 1983-0077 | 1983-0005 | | |
| | 1984-0060 | 1984-0049A | | |
| | 1985-0042 | 1986-0018 | | |

### Water-Level

Repeated water-level measurements have been made at the following sites.

| Isachsen | Mould Bay | Audhild Bay | Greely Fiord | Eureka |
|---|---|---|---|---|
| 1949-0001 | 1951-0007 | 1982-0131 | 1969-0015 | 1954-0010 |
| 1954-0010 | 1982-0131 | 1983-0077 | 1970-0017,18 | ('54-'58) |
| 1959-0004 | 1983-0077 | 1984-0060 | 1972-0023 | |
| 1983-0077 | 1984-0060 | 1985-0042 | 1973-0015 | |
| 1984-0060 | 1985-0042 | | 1975-0039 | |
| 1985-0042 | | | 1976-0018 | |
| | | | 1977-0019 | |

### Current-Meter

There are relatively few cases of repeated current measurements.

| Greely Fiord | Byam/Austin Ch. | Wellington Ch. |
|---|---|---|
| 1974-0025 | 1974-0134 | 1978-0012 |
| 1975-0039 | 1976-0017 | 1984-0049A |
| | 1983-0008 | |

## 6.4 CONCLUSIONS

This inventory of physical oceanographic data for the Queen Elizabeth Islands allows oceanographers and others to determine the coverage and quality of data pertaining to their areas of interest. The inventory at present contains 137 data sets which have been collected primarily by the oil industry and government agencies. Much of the data consists of temperature/salinity data collected largely since 1960 and current meter time series data commencing in 1974. A sharp reduction in oceanographic effort occurred in 1985.

Most of the data collection was carried out from March to June using sea-ice as a measurement platform. For only a very limited portion of the study area, in the southeastern channels, have ship-based operations been possible in most summers. There are even fewer data available in the fall and early winter months.

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Walker, E.R. and K.D. Chapman, 1973. Salinity-conductivity formulae compared. Dept. of Environment, Mar. Sc. Dir., Pac. Region, Victoria, B.C., PMSR 73-5. 52 p.

## 8. DATA INVENTORY TABLE 1- SUMMARY LISTING OF DATA SETS

Table 1 summarizes the data sets included in this inventory sequentially by data-set number. Water-property, current-meter, and water-level data are fully catalogued. BT data are not catalogued in detail; however their existence has been noted in Table 1, and their general distribution may be deduced from the pattern of stations for a particular cruise, as they were usually collected at and along the track between stations. Over-the-side current measurements of short duration made with fixed-depth or profiling current meters have not been fully inventoried, but attempts were made to include all such data covering one tidal cycle or more.

Each column of the table contains the following information (Symbols and abbreviations used in each column are explained as well):

**Column 1 - Data set I.D.**

- contains the data-set identifier number, which is of the form yyyynnnn where yyyy is the year in which the data set was collected, and nnnn is the sequential number of the data set for that particular year. (The series of data-set numbers applies to the whole set of inventories; gaps may appear in the sequence in any one inventory where data-sets exist only in other areas or disciplines. A data-set which appears in two or more areas or disciplines will have the same number in every case.) Data-sets may be sub-divided by the addition of a letter at the end of the number. Sub-divisions have been used when different cruises have been grouped under one I.D. number, or when different programs were conducted on the same cruise. In the case of water-level stations, where data were collected at the same location intermittently or continuously over more than one year, one I.D. number has been used to represent the entire data set.

**Column 2 - Ship or collecting agency**

- contains the name of the ship (underlined), platform and/or agency.

**Column 3 - Dates of measurements**

- gives the dates spanning the period during which measurements were taken in the area covered by the inventory. NS indicates that dates were not provided in the documentation, or that documentation was unavailable.

**Column 4 - Quantity measured**

- lists the physical parameters measured in the data set. Measurements identified as "Currents" are Eulerian current measurements (made at a fixed location); "Current drift" refers to Lagrangian measurements. "Current profiles" are spot measurements at certain depths. A quantity followed by a ? means that reference to such a measurement was made but no supporting details were available. NS means the information was not available.

**Column 5 - Instruments or methods used**

- lists the instruments and methods used to make the measurements. The entries appear opposite the names of the quantities they measure. A question mark after the entry denotes an assumption, i.e. that the method used was not explicitly stated and an assumption was made from standard practice at the time. NS means that the instrument used is unknown.; in such cases no estimates of precision and accuracy are given.

**Column 6 - Estimate of data precision and accuracy**

- lists the estimates of the precision (repeatability) and accuracy for each instrument opposite the entry for that instrument in column 5. For instruments of a digital nature, the precision specified is based on the resolution of the instrument. Where possible, estimates made by the original investigators are used. They are entered as two numbers of the form $\pm n_1$, $n_2$ where $n_1$ is the precision and $n_2$ the accuracy. Where investigator's estimates were not available, the following special symbols and entries have been used:

$[\pm n_1, n_2]$: standard oceanographic methods were used, which would normally result in these values. The techniques and precision/accuracy used in this context are:

| | |
|---|---|
| BT | [±0.2,0.2C°] |
| Reversing thermometer | [±0.02,0.03C°] |
| Salinity - Hydrometer | [±0.2,0.2°/oo] |
| Salinity - Refractometer | [±0.5,0.5°/oo] |
| Salinity - Titration | [±0.02,0.04°/oo] |
| Salinity - Bench salinometer | [±0.01,0.02°/oo] |
| High Quality CTD | [±0.005,0.01C°]<br>[±0.005,0.02°/oo] |

$\pm n_1$ @: manufacturer's specifications for that instrument.

$\pm n_1$ ?: an estimate has been given which is questionable for reasons detailed in Appendix 1.

NS indicates no information was available and no reasonable assumption could be made.

**Column 7 - Data rating number**

- carries the data rating number assigned as explained in Section 5.

**Column 8 - Area**

- lists the areas in which the majority of the measurements in the data set were taken. (The areas are defined in Figure 1.) If the data were collected at a drilling site, the well name is also indicated in brackets.

**Column 9 - Concurrent measurements**

- lists known measurements in other disciplines taken as part of the data set. Abbreviations are explained in Appendix 3. Further measurements may have been taken, but not discovered while cataloguing the physical oceanographic data. Therefore the list is not necessarily complete. Unless otherwise specified (as sediment or ice for example), the medium within which the concurrent measurements were obtained is the water column.

**Column 10 - Source or reference**

- lists a primary source or reference for the data sets. Data sets held in the data banks at the Marine Environmental Data Centre, Ottawa or at the National Oceanographic Data Center, Washington D.C. are identified, respectively by the entries MEDS* and NODC* followed by the data bank's identity number. A MEDS number alone does not necessarily mean that the data are not stored at NODC. If MEDS does not have the data then a NODC number is given if they are stored there. Appendix 2 lists addresses and contacts for these sources. Other references and reports are listed in Section 10.3.

TABLE 1: SUMMARY LISTING OF DATA SETS

| Data Set I.D. | Ship or collecting agency | Dates of measurements | Quantity measured | Instruments or methods used NS=Unknown | Estimate of data precision and accuracy | Data rating number | Area | Concurrent measurements | Source or reference |
|---|---|---|---|---|---|---|---|---|---|
| 1819-0001 | HMCS HECLA & HMS GRIPER, PARRY'S FIRST VOYAGE | Aug. 28 | Water levels | Temporary nearshore gauge | NS | 3 | Byam Martin Island | | Parry (1821)<br>Harris (1911) |
| 1852-0001 | BRITISH VESSELS | Aug. 28-31 | Water levels | Temporary nearshore gauge | NS | 2 | Belcher Channel | | Harris (1911) |
| 1853-0001 | BRITISH VESSELS | May 27-June 24 | Water levels | Temporary nearshore gauge | NS | 2 | Penny Strait | | Anon. (1875)<br>Harris (1911) |
| 1946-0001 | USCGC NORTHWIND; U.S. NAVY HYDRO. OFFICE | Sept. 5 | Temperature<br><br>Salinity | Rev. therm.,<br>BT<br>Knudsen titration? | [± .02C°,.03C°]<br>[± .2C°,.2C°]<br>[±.02°/oo,.04°/oo] | 3<br>3<br>3 | Wellington Channel | Bottom sediment, plankton, transparency | Metcalf (1949) |
| 1948-0001 | USCGC EASTWIND; WOODS HOLE OCEAN. INST. FOR U.S. NAVY HYDRO. OFFICE | Aug. 29 | Temperature<br><br>Salinity | Rev. therm.,<br>BT<br>Knudsen titration | [±.02C°,.03C°]<br>[±.2C°,.2C°]<br>[±.02°/oo,.04°/oo] | 3<br>3<br>3 | Eureka Sound | Transparency | NODC# 31EW50376<br>Metcalf (1949) |
| 1949-0001 | CANADIAN HYDROGRAPHIC SERVICE | Aug. 1,1949-Aug. 31,1951 | Water levels | NS | NS | 2 | Prince Gustaf Adolf Sea (Isachsen) | | MEDS WL-ID 06910 |
| 1951-0007 | CANADIAN HYDROGRAPHIC SERVICE | July 1,1951-Aug. 31,1952 | Water levels | NS | NS | 2 | Crozier Strait (Mould Bay) | | MEDS WL-ID 06955 |
| 1952-0003 | USS EDISTO; U.S. NAVY HYDRO. OFFICE | Aug. 17-19 | Temperature<br><br>Salinity<br>Water levels | Rev. therm.,<br>BT<br>Knudsen titration?<br>Tide staff | [±.02C°,.03C°]<br>[±.2C°,.2C°]<br>[±.02°/oo,.04°/oo]<br>NS | 3<br>3<br>3<br>3 | Norwegian Bay, Eureka Sound, Slidre Fiord | $O_2$, transparency, vertical plankton tows | MEDS# 100052040<br>NODC# 31ED50360<br>USNHO (1954) |
| 1954-0001 | HMCS LABRADOR | Aug. 18-25 | Temperature<br><br>Salinity | Rev. therm.,<br>BT<br>Knudsen titration | [±.02C°,.03C°]<br>[±.2C°,.2C°]<br>[±.02°/oo,.04°/oo] | 3<br>3<br>3 | Wellington Channel, Byam Channel | $O_2$,plankton hauls,bottom samples, phosphates | MEDS# 100354100<br>MEDS# 100054040<br>Bailey (1955, 1957) |
| 1954-0010 | CANADIAN HYDROGRAPHIC SERVICE | Jul. 1,1954-Aug. 31,1958 | Water levels | NS | NS | 2 | Eureka Sound, Prince Gustaf Adolf Sea (Isachsen) | | MEDS WL-ID 06840,06910 |
| 1957-0003 | CCGS LABRADOR; MCGILL UNIV., MONTREAL | Aug. 28-Sept. 17 | Temperature<br>Salinity | Rev. therm.<br>Knudsen titration? | [±.02C°,.03C°]<br>[±.02°/oo,.04°/oo] | 3<br>3 | Wellington Channel, Queens Channel, Penny Strait | $O_2$, phosphates | MEDS# 100357244<br>MEDS# 100057040<br>Collin (1962) |
| 1959-0004 | CANADIAN HYDROGRAPHIC SERVICE | Mar. 1-Apr. 30 | Water levels | NS | NS | 2 | Prince Gustaf Adolf Sea (Isachsen) | | MEDS WL-ID 06910 |

TABLE 1: SUMMARY LISTING OF DATASETS (Con't)

| Data Set I.D. | Ship or collecting agency | Dates of measurements | Quantity measured | Instruments or methods used NS=Unknown | Estimate of data precision and accuracy | Data rating number | Area | Concurrent measurements | Source or reference |
|---|---|---|---|---|---|---|---|---|---|
| 1960-0005 | CCGS LABRADOR<br>DEPT. MINES &<br>TECH. SURV.,<br>FISH. RES. BD.<br>CAN., & DALHOUSIE U. | Aug. 30 | Temperature<br>Salinity | Rev. therm.,<br>BT<br>Knudsen titration | [±.02C°,.03C°]<br>[±.2C°,.2C°]<br>[±.02°/oo,.04°/oo] | 3<br>3<br>3 | Wellington<br>Channel | Plankton | MEDS# 181060340<br>MEDS# 180060001<br>CODC (1984) |
| 1960-0007 | POLAR SHELF<br>PROJECT,<br>AIRCRAFT | Apr. 18-<br>May 31 | Temperature<br>Salinity | Rev. therm.,<br>BT<br>NS | [±.02C°,.03C°]<br>[±.2C°,.2C°]<br>NS | 3<br>3<br>3 | Sverdrup Ch.,<br>Peary Ch.,<br>Prince Gustaf<br>Adolf Sea,<br>Wilkins Str.,<br>Ballantyne Str. | O$_2$, plankton<br>hauls,<br>sediment cores | MEDS# 181160338<br>MEDS# 180060040<br>Collin (1961) |
| 1961-0003 | CCGS SIR JOHN<br>A.MACDONALD;<br>DEPT. ENERGY,<br>MINES & RES.,<br>MAR. SC. BRANCH | Aug. 24-<br>Sept. 9 | Temperature<br>Salinity | Rev. therm.,<br>BT<br>Salinometer | [±.02C°,.03C°]<br>[±.2C°,.2C°]<br>[±.02°/oo,.04°/oo] | 3<br>3<br>3 | Wellington Ch.,<br>Byam Channel,<br>Austin Channel,<br>Norwegian Bay,<br>Queens Channel,<br>Nansen Sd. | | MEDS# 180761344<br>MEDS# 180061003<br>MEDS# 180061072<br>CODC (1966a)<br>Barber and Huyer(1971) |
| 1961-0004 | CCGS LABRADOR;<br>DEPT. ENERGY,<br>MINES & RES.,<br>MAR. SC. BRANCH | Sept. 7 | Temperature<br>Salinity | Rev. therm.,<br>BT<br>Salinometer | [±.02C°,.03C°]<br>[±.2C°,.2C°]<br>[±.02°/oo,.04°/oo] | 3<br>3<br>3 | Wellington<br>Channel | O$_2$, plankton<br>tows | MEDS# 181061341<br>MEDS# 180061001<br>MEDS# 180061072<br>CODC (1966a) |
| 1961-0005 | POLAR SHELF<br>PROJECT,AIRCRAFT | May 8 | Temperature<br>Salinity | Rev. therm.<br>NS | [±.02C°,.03C°]<br>NS | 2<br>2 | Eureka<br>Sound | | MEDS# 180161339 |
| 1961-0009 | PACIFIC<br>OCEANOGRAPHIC<br>GROUP,<br>ICE CAMP | Apr. 13-<br>May 3 | Temperature<br>Salinity<br>Currents | Rev. therm.,<br>BT<br>Salinometer<br>E-M Induc. | ±.01C°, [.03C°]<br>[±.2C°,.2C°]<br>[±.01°/oo,.02°/oo]<br>NS | 3<br>3<br>3<br>3 | Prince Gustaf<br>Adolf Sea | O$_2$, vertical<br>plankton<br>hauls,<br>acoustics | MEDS# 180061763<br>Herlinveaux (1961) |
| 1962<br>-0005A | FISH. RES.<br>BD. CAN.,<br>ARCTIC UNIT,<br>MONTREAL,<br>LAND BASED | July 17 | Temperature<br>Salinity | Rev. therm.,<br>BT<br>NS | [±.02C°,.03C°]<br>[±.2C°,.2C°]<br>NS | 3<br>3<br>2 | Penny Strait | Plankton, fish,<br>mammals,<br>chemicals | MEDS# 180462363<br>MEDS# 180062004<br>CODC (1983),<br>Hunter&Leech<br>(1983) |
| 1962<br>-0005B | FISH. RES.<br>BD. CAN.,<br>ARCTIC UNIT,<br>MONTREAL,<br>LAND-BASED | July 2-<br>Aug. 16 | Temperature<br>Salinity | Rev. therm.,<br>BT<br>NS | [±.02C°,.03C°]<br>[±.2C°,.02C°]<br>NS | 3<br>3<br>3 | Nansen Sound,<br>Massey Sound | Plankton, fish,<br>mammals, O$_2$,<br>chemicals | MEDS# 180462364<br>MEDS# 180062004<br>CODC (1983),<br>Hunter&Leech<br>(1983) |
| 1962-0006 | CCGS SIR JOHN<br>A.MACDONALD<br>DEPT. MINES &<br>TECH. SURV.,<br>MAR. SC. BR. | Aug. 7-31 | Temperature<br>Salinity | Rev. therm.,<br>BT<br>Salinometer | ±.02C°, [.03C°]<br>[±.2C°,.2C°]<br>±.004°/oo,[.02°/oo] | 3<br>3<br>3 | Wellington Ch.,<br>Norwegian Bay,<br>Penny Strait,<br>Austin Channel,<br>Belcher Ch.,<br>Eureka Sd.,<br>Greely Fd.,<br>Kellet Str.,<br>Nansen Sd. | O$_2$, vertical<br>plankton<br>hauls | MEDS# 181062359<br>MEDS# 180062086<br>Barber and Huyer(1971)<br>CODC (1966b) |

TABLE 1: SUMMARY LISTING OF DATASETS (Con't)

| Data Set I.D. | Ship or collecting agency | Dates of measurements | Quantity measured | Instruments or methods used NS=Unknown | Estimate of data precision and accuracy | Data rating number | Area | Concurrent measurements | Source or reference |
|---|---|---|---|---|---|---|---|---|---|
| 1962-0013 | CANADIAN HYDROGRAPHIC SERVICE | July 1-31 | Water levels | NS | NS | 2 | Queens Channel | | MEDS WL-ID 06765 |
| 1963-0010 | DEFENCE RESEARCH ESTABLISHMENT OTTAWA, MOTOR TOBOGGAN & FREIGHT CANOE | May 26-<br>Aug. 18 | Temperature<br><br>Salinity<br>Water Level | Rev. therm.,<br>BT<br>Titration<br>Staff | [±.02C°,.03C°]<br>[±.2C°,.2C°]<br>[±.02°/oo,.04°/oo]<br>NS | 3<br>3<br>3<br>2 | Nansen Sound | Botany, glaciology | MEDS# 180763001<br>CODC (1969)<br>Ford&Hattersley-Smith (1965)<br>Hattersley-Smith(1964) |
| 1964-0004 | CCGS SIR JOHN A. MACDONALD | Aug. 28-<br>Sept. 3 | Temperature<br>Salinity | Rev. therm.<br>NS | [±.02C°,.03C°]<br>NS | 2<br>2 | Byam Channel | | MEDS# 180264008 |
| 1964-0003 | PACIFIC OCEANOGRAPHIC GROUP, ICEPACK V | Feb. 3-19 | Temperature<br><br>Salinity | Rev. therm.,<br>BT<br>Salinometer | [±.02C°,.03C°]<br>[±.2C°,.2C°]<br>[±.01°/oo,.02°/oo] | 3<br>3<br>3 | Prince Gustaf Adolf Sea | Vertical plankton hauls, acoustics, $O_2$ | Herlinveaux (1965) |
| 1964-0008 | DEFENCE RESEARCH ESTABLISHMENT OTTAWA, MOTOR TOBOGGAN & FREIGHT CANOE | May 8-<br>Aug. 25 | Temperature<br><br>Salinity<br>Water levels | Rev. therm.,<br>BT<br>Titration<br>Foxboro | [±.02C°,.03C°]<br>[±.2C°,.2C°]<br>[±.02°/oo,.04°/oo]<br>NS | 3<br>3<br>3<br>2 | Nansen Sound | $O_2$, vertical plankton hauls, botany, glaciology, ice physics | MEDS# 180764001<br>MEDS WL-ID 06650<br>CODC (1969)<br>Ford&Hattersley-Smith (1965)<br>Hattersley-Smith(1967) |
| 1965-0005 | DEFENCE RESEARCH ESTABLISHMENT OTTAWA, MOTOR TOBOGGAN & FREIGHT CANOE | May 11-<br>Aug. 16 | Temperature<br><br>Salinity | Rev. therm.,<br>BT<br>Titration | [±.02C°,.03C°]<br>[±.2C°,.2C°]<br>[±.02°/oo,.04°/oo] | 3<br>3<br>3 | Nansen Sound, Eureka Sound | | MEDS# 180765001<br>CODC (1969) |
| 1966-0010 | DEFENCE RESEARCH ESTABLISHMENT OTTAWA, MOTOR TOBOGGAN & FREIGHT CANOE | May 1-<br>July 18 | Temperature<br><br>Salinity | Rev. therm.,<br>BT<br>Titration | [±.02C°,.03C°]<br>[±.2C°,.2C°]<br>[±.02°/oo,.04°/oo] | 3<br>3<br>3 | Nansen Sound | | MEDS# 180766001<br>CODC (1969) |
| 1967-0002 | CCGS LABRADOR; PACIFIC OCEANOGRAPHIC GROUP | Aug. 22-<br>Sept. 9 | Temperature<br><br><br>Salinity<br><br>Currents | Rev. therm.,<br>CTD,<br>BT<br>Salinometer,<br>CTD<br>Hydroproducts | [±0.02C°,.03C°]<br>NS<br>[±.2C°,.2C°]<br>[±.01°/oo,.02°/oo]<br>NS<br>NS,[±.02m/s] (speed)<br>NS,[±10] (direction) | 3<br>1<br>3<br>3<br>1<br>3<br>3 | Wellington Channel, Norwegian Bay, Eureka Sound, Nansen Sound | Sediment cores, deuterium | MEDS# 180267013<br>CODC (1968)<br>Herlinveaux (1974)<br>Redfield and Friedman (1969) |
| 1967-0005 | DEFENCE RESEARCH ESTABLISHMENT OTTAWA, MOTOR TOBOGGAN & FREIGHT CANOE | Apr. 19-<br>Aug. 20 | Temperature<br><br>Salinity | Rev. therm.,<br>BT<br>NS | [±.02C°,.03C°]<br>[±.2C°,.2C°]<br>NS | 3<br>3<br>2 | Nansen Sound, Eureka Sound | | MEDS# 180767002 |

TABLE 1: SUMMARY LISTING OF DATASETS (Con't)

| Data Set I.D. | Ship or collecting agency | Dates of measurements | Quantity measured | Instruments or methods used NS=Unknown | Estimate of data precision and accuracy | Data rating number | Area | Concurrent measurements | Source or reference |
|---|---|---|---|---|---|---|---|---|---|
| 1968-0001 | CCGS LABRADOR; FISH. RES. BD., ICEPACK 8/68 | Aug. 18-Sept. 16 | Temperature<br><br>Salinity | Rev. therm.,<br>BT<br>Salinometer | [±.02C°,.03C°]<br>[±.2C°,.2C°]<br>[±.01°/oo,.02°/oo] | 3<br>3<br>3 | Wellington Channel, Norwegian Bay | $O_2$, flora & fauna observations from submersible, beach walks | MEDS# 100260013<br>Herlinveaux (1970) |
| 1968-0008 | CANADIAN HYDROGRAPHIC SERVICE | May 1-Sept. 30 | Water levels | NS | NS | 2 | Nansen Sound,<br>McDougall Sound,<br>Byam Channel | | ID 06660/06680/06757<br>06833/06834<br>MEDS file C81173B01 |
| 1968-0015 | DEFENSE RESEARCH ESTABLISHMENT OTTAWA | May 11 - June 15 | Temperature<br>Salinity<br>Currents | NS<br>NS<br>Ekman | NS<br>NS<br>NS | 2<br>2<br>2 | Mouth of Nansen Sound | Ice physics, benthos, met. | MEDS# 100960001<br>Hattersley-Smith(1969) |
| 1969-0014 | FROZEN SEA RESEARCH GROUP, LAND-BASED CAMP | Mar.? - Apr.? | Temperature<br><br>Salinity | Guildline 8101 CTD<br>Thermistors<br>Guildline CTD | [±.01C°],.02C°<br>NS,±.01C°<br>[±.01°/oo],.04°/oo | 1<br>1<br>1 | Nansen Sound, d'Iberville Fiord | | Lake and Walker (1973) |
| 1969-0015 | FROZEN SEA RESEARCH GROUP, LAND-BASED CAMP | Aug. 12-Sept. 19 | Temperature<br>Salinity<br>Currents<br>Water levels | Thermistors<br>NS<br>Dye<br>Ottboro recorder | NS,±.01C°<br>[±.01°/oo,.02°/oo]<br>NS<br>NS | 2<br>2<br>2<br>2 | Nansen Sound, d'Iberville Fiord | | MEDS# 100690670<br>Lake and Walker (1973)<br>MEDS ID 06670 |
| 1969-0016 | CANADIAN HYDROGRAPHIC SERVICE | Aug. 1-31 | Water levels | NS | NS | 2 | Byam Channel | | MEDS WL-ID 06835 |
| 1970-0017 | FROZEN SEA RESEARCH GROUP, LAND-BASED CAMP | Mar. 12-Apr. 7 | Temperature<br><br>Salinity<br>Water levels | Guildline CTD,<br>Thermistors<br>Guildline CTD<br>Ottboro recorder | [±.01C°],.02C°<br>NS,±.01C°<br>[±.01°/oo],.04°/oo<br>NS | 2<br>2<br>2<br>2 | Nansen Sound, d'Iberville Fiord | | Lake and Walker (1973) |
| 1970-0018 | FROZEN SEA RESEARCH GROUP, LAND-BASED CAMP | Aug. 15-Oct. 4 | Temperature<br><br>Salinity<br>Water levels | Thermistor chains<br>Salinometer<br>Ottboro recorder | NS,±.01C°<br><br>[±.01°/oo,.02°/oo]<br>NS | 2<br><br>2<br>2 | Nansen Sound, d'Iberville Fiord | | Lake and Walker (1973) |
| 1971-0015 | FROZEN SEA RESEARCH GROUP, LAND-BASED CAMP | Mar. 17-31 | Temperature<br>Salinity | Guildline CTD<br>Guildline CTD | [±.01C°],.02C°<br>[±.01°/oo],.04°/oo | 2<br>2 | Nansen Sound, d'Iberville Fiord | | Lake and Walker (1973) |
| 1972-0011 | CCGS LOUIS ST. LAURENT, FISH. & MARINE SER., PAC. REGION | Sept. 28 | Temperature<br><br>Salinity | Rev. therm.,<br>BT<br>Salinometer | [±.02C°,.03C°]<br>[±.2C°,.2C°]<br>[±.01°/oo,.02°/oo] | 3<br>3<br>3 | Wellington Channel | Transparency, plankton, $O_2$, $SiO_3$, $PO_4$, $NO_3$, $NO_2$, bottom grab samples | Herlinveaux and Wilson (1974) |

TABLE 1: SUMMARY LISTING OF DATASETS (Con't)

| Data Set I.D. | Ship or collecting agency | Dates of measurements | Quantity measured | Instruments or methods used NS=Unknown | Estimate of data precision and accuracy | Data rating number | Area | Concurrent measurements | Source or reference |
|---|---|---|---|---|---|---|---|---|---|
| 1972-0023 | FROZEN SEA RESEARCH GROUP, LAND-BASED CAMP | Aug. 20<br>Aug. 22, 1972 - Aug. 16, 1975 | Temperature<br>Water levels | Thermistor Chains<br>FSRG gauge | NS, ±.01C°<br>±0.004 m, 0.02 m | 2<br>3 | Nansen Sound, d'Iberville Fiord | | Frozen Sea Research Group, Institute of Ocean Sciences |
| 1973-0006 | INSTITUTE OF OCEAN SCIENCES, ICE CAMP | Apr. 23 | Temperature<br>Salinity<br>Currents | Gldl. 8101/8202<br>Gldl. 8101/8202<br>Aanderaa RCM-4 | ±.01C°, .03C°<br>±.01°/oo, .04°/oo<br>NS | 3<br>3<br>2 | Wellington Channel | Silicate, nitrate, phosphate | Herlinveaux et al. (1978) |
| 1973-0007 | CANADIAN HYDROGRAPHIC SERVICE | Apr. 1- Sept. 30 | Water levels | NS | NS | 2 | Norwegian Bay (Surprise Fiord) | | MEDS file C81173B01 ID 06600 |
| 1973-0008 | SIR WILLIAM ALEXANDER; INSTITUTE OF OCEAN SCIENCES | Aug. 28 | Temperature<br>Salinity<br>Currents | Gldl. 8101/8202<br>Gldl. 8101/8202<br>Hydro Products | ±.01C°, .04C°<br>±.01°/oo, .1°/oo<br>NS | 3<br>3<br>2 | Wellington Channel | Silicate, nitrate, phosphate | Herlinveaux, Fissel & Wilson (in preparation) |
| 1973-0013 | FROZEN SEA RESEARCH GROUP, LAND-BASED CAMP | Mar. 31- Apr. 21 | Temperature<br>Salinity<br>Water levels | Guildline 8101A<br>Guildline 8101A<br>FSRG gauge | ±.001C°, .01C°<br>±.001°/oo, .02°/oo<br>±.004 m, .02 m | 4<br>4<br>3 | Nansen Sound, d'Iberville Fiord | $O_2$ | Frozen Sea Research Group (1973)<br>Lewis & Sudar (1972) |
| 1973-0015 | FROZEN SEA RESEARCH GROUP, LAND-BASED CAMP | June 1, 1973- June 19, 1974 | Water levels<br>Temperature | FSRG gauge<br>Thermistor | ±.004 m, .02 m<br>[NS, ±.01C°] | 3<br>3 | Nansen Sound, d'Iberville Fiord | River runoff | Lake and Walker (1976) |
| 1974 -0014A | MARINE SCIENCES MCGILL, ICECAMP, FOR POLAR GAS PROJECT | May 14 | Temperature<br>Salinity | Rev. therm.<br>Refractometer | [±.02C°, .03C°]<br>[±.25°/oo, .5°/oo] | 3<br>3 | Austin Chan. | Plankton, benthos, Chl.a $S_iO_3$, $PO_4$, $NO_2$, $NO_3$, ice cores | Thomson, Woods & Acreman (1975) |
| 1974-0018 | BEAK CONSULTANTS FOR PANARCTIC OILS, LAND-BASED CAMP | June 22- July 8 | Temperature<br>Salinity<br>Currents | NS<br>NS<br>NS | NS<br>NS<br>NS | 2<br>2<br>2 | Edingburgh Sea, Maclean Strait | | Beak Consultants Ltd. (1974) |
| 1974-0025 | FROZEN SEA RESEARCH GROUP, TRACKED VEHICLE & SMALL VESSEL | Mar. 30- Aug. 25 | Temperature<br><br>Salinity<br>Currents | Guildline 8101A<br>Aanderaa<br>Guildline 8101A<br>Aanderaa RCM | ±.001C°, .01-.05C°<br>NS, ±.15C°<br>±.001, .005-.05°/oo<br>NS, [±.01 m/s] (speed)<br>NS (direction) | 4<br>3<br>4<br>1<br>1 | Nansen Sound, d'Iberville Fiord | | Frozen Sea Research Group (1975)<br>Lake and Walker (1976) |
| | | Mar. 28, 1974- June 19, 1975 | Water levels | FSRG gauge | ±.004 m, .02 m | 3 | | | |

TABLE 1: SUMMARY LISTING OF DATASETS (Con't)

| Data Set I.D. | Ship or collecting agency | Dates of measurements | Quantity measured | Instruments or methods used NS=Unknown | Estimate of data precision and accuracy | Data rating number | Area | Concurrent measurements | Source or reference |
|---|---|---|---|---|---|---|---|---|---|
| 1974-0118 | PLURITEC | Aug. 14 | Temperature | YSI Model 33 | NS | 3 | Danish Strait | $O_2$, ph, colour | Pluritech Consult. |
| | CONSULTANT LTD. | | Salinity | YSI Model 33 | NS | 3 | (Jackson Bay) | turbidity, birds | Ltd. (1975) |
| | | | | | | | | plankton, mammals | |
| | | | | | | | | transparency. | |
| 1974-0121 | DOBROCKY | Aug. 17-22 | Temperature | NS | NS | 2 | Crozier Strait | $O_2$, pH, As, Cd | Dobrocky (1975) |
| | SEATECH LTD. | | Salinity | NS | NS | 2 | (Cominco Bay) | Cu, Fe, Pb, Zn, | |
| | FOR B. C. | | | | | | | sediment, fish, | |
| | RESEARCH | | | | | | | benthos, birds, | |
| | | | | | | | | mammals, plankton | |
| 1974-0134 | R.J. BROWN & | Apr. 23 | Salinity | NS | NS | 0 | Byam Channel | Sediment | Unpub. Data (Polar Gas |
| | ASSOC. FOR | Mar. 31- | Currents | NS | NS | 0 | | | Project), avail. from |
| | POLAR GAS PROJ. | Apr. 20 | | | | | | | IOS |
| 1975-0016 | BEAK | June 1- | Temperature | Aanderaa RCM, | [± .02C°, .15C°] | 1 | Hazen Strait, | | Beak Consult. (1976a) |
| | CONSULTANTS | July 20 | | Interocean CTD | [± .02C°],NS | 1 | Fitzwilliam Str., | | |
| | FOR PANARCTIC | | Salinity | Aanderaa RCM, | [± .1 °/oo],NS | 1 | Hecla and | | |
| | OILS LTD. | | | Interocean CTD | [± .02 °/oo],NS | 1 | Griper Bay | | |
| | | | Currents | Aanderaa RCM-4 | NS, [±.01 m/s](speed) | 1 | | | |
| | | | | | NS (Direction) | 1 | | | |
| 1975-0017 | BEAK | Mar. 3- | Temperature | NS | NS | 2 | E. Sabine Pen. | | Beak Consult. (1976b) |
| | CONSULTANTS | June 17 | Salinity | NS | NS | 2 | (Drake I-55) | | |
| | FOR PANARCTIC | | Currents | Aanderaa RCM-4 | NS, [±.01 m/s](speed) | 1 | | | |
| | OILS LTD. | | | | NS (Direction) | 1 | | | |
| | | | Water levels | NS | NS | 2 | | | |
| 1975-0018 | BEAK | Jan. 30- | Temperature | Aanderaa RCM-4 | [± .02C°, .15C°] | 1 | MacLean Strait, | | Beak Consult. (1976c) |
| | CONSULTANTS | July 6 | | Interocean CTD | [±.02C°],NS | 1 | Desbarats | | |
| | FOR PANARCTIC | | Salinity | Interocean CTD | [±.02°/oo],NS | 1 | Strait, | | |
| | OILS LTD. | | Currents | Aanderaa RCM-4 | NS, [±.01m/s](speed) | 1 | Hazen Strait | | |
| | | | | | NS (direction) | 1 | | | |
| 1975-0019 | BEAK | Mar 2- | Temperature | Beckman RS5-3 | NS, [±.5C°] | 2 | East Sabine | | Beak Consult. (1975b) |
| | CONSULTANTS | Apr. 12 | Salinity | Beckman RS5-3 | NS, [±.3°/oo] | 2 | Peninsula | | |
| | FOR PANARCTIC | | Currents | Cushing | NS | 1 | | | |
| | OILS LTD. | | | | | | | | |
| 1975-0020 | BEAK | Nov.23,1975- | Currents | Aanderaa RCM | NS, [±.01 m/s](speed) | 1 | Hecla and | | Beak Consult. (1976d) |
| | CONSULTANTS | Feb.29,1976 | | | NS (direction) | 1 | Griper Bay | | |
| | FOR PANARCTIC | | Temperature | Aanderaa RCM | NS,[±.15C°] | 1 | (Hecla P-62) | | |
| | OILS LTD. | | Salinity | Aanderaa RCM | [±.1°/oo],NS | 1 | | | |
| | | | Water levels | Steven | NS | 1 | | | |
| 1975-0021 | BEAK | Dec.13,1975- | Currents | Cushing, | NS | 1 | Maclean Strait, | | Beak Consult. (1976e) |
| | CONSULTANTS | Apr.21,1976 | | Aanderaa RCM | NS, [±.01 m/s](speed) | 1 | Danish Strait | | |
| | FOR PANARCTIC | | | | NS (direction) | 1 | (Jackson G-16) | | |
| | OILS LTD. | | Temperature | Aanderaa | NS, [±.15C°] | 1 | | | |
| | | | Salinity | Aanderaa | [±.1°/oo], NS | 1 | | | |
| | | | Water levels | Steven | NS | 1 | | | |

TABLE 1: SUMMARY LISTING OF DATASETS (Con't)

| Data Set I.D. | Ship or collecting agency | Dates of measurements | Quantity measured | Instruments or methods used NS=Unknown | Estimate of data precision and accuracy | Data rating number | Area | Concurrent measurements | Source or reference |
|---|---|---|---|---|---|---|---|---|---|
| 1975-0022 | INNOVATIVE VENTURES FOR PANARCTIC OILS LTD. | Dec.4,1975-May 29,1976 | Currents | Cushing | NS | 1 | Hazen Strait, MacLean Strait, Prince Gustaf Adolf Sea | Ice motion | Innovative Ventures (1976) |
| | | | Temperature | Aanderaa RCM | [±.02C°,.15C°] | 2 | | | |
| | | | Salinity | Aanderaa RCM | [±.1°/oo],NS | 2 | | | |
| 1975-0023 | BEAK CONSULANTS FOR PANARCTIC OILS LTD. | July 10-16 | Temperature | Beckman RS5-3 | NS,[±.5C°] | 1 | Danish Strait, MacLean Strait | | Beak Consult. (1975a) |
| | | | Salinity | Beckman RS5-3 | NS,[±.3°/oo] | 1 | | | |
| 1975-0039 | FROZEN SEA RESEARCH GROUP, INSTITUTE OF OCEAN SCIENCES,LAND-BASED CAMP | Mar. 28-June 12 | Temperature | Aanderaa RCM, Guildline 8101A | NS, [±.15C°] | 3 | Nansen Sound, d'Iberville Fiord | O$_2$ | Frozen Sea Research Group (1976a)<br>Lake and Walker (1976) |
| | | | | | ±.001C°,.005-.1C° | 4 | | | |
| | | | Salinity | Guildline 8101A | ±.001°/oo,.01-.02°/oo | 4 | | | |
| | | | Currents | Aanderaa RCM | NS, [±.01 m/s](speed) | 3 | | | |
| | | | | | NS (direction) | 3 | | | |
| | | | Current profiles | Ultrasonic C.M. | NS,±.25 (speed) | 3 | | | |
| | | | | | NS,±10 (direction) | 3 | | | |
| | | | Water levels | FSRG gauge | ±.004m, .02m | 3 | | | |
| 1975-0040 | CANADIAN HYDROGRAPHIC SERVICE | Aug.1,1975-Aug.31,1976 | Water levels | NS | NS | 2 | Byam Channel | | MEDS WL-ID 06835 |
| 1975-0138 | FROZEN SEA RESEARCH GROUP, INST. OF OCEAN SCIENCES | June 13 | Temperature | NS | NS | 2 | Greely Fiord | Atmospheric observations, stream flow | R.A. Lake, IOS (pers. comm.) |
| | | | Conductivity | NS | NS | 2 | | | |
| 1976-0010 | LGL LTD. FOR POLAR GAS PROJ. | June | Temperature | Rev. Therm. | ±[.02],.05C° | 3 | Wellington Channel | NO$_3$,P,SIO$_3$, Chl.A,benthos, plankton,fish | Thomson, Martin & Cross (1986) |
| | | | Salinity | Refractometer or | ±[.5],.5°/oo | 3 | | | |
| | | | | Salinometer | [±.01,.02°/oo | 3 | | | |
| 1976-0014 | BEAK CONSULTANTS FOR PANARCTIC OILS LTD. | Jan. 15-Apr. 17 | Currents | Aanderaa RCM | NS, [±.01 m/s](speed) | 0 | Hecla and Griper Bay (Hecla M-25) | | Beak Consult. (1976f) |
| | | | | | NS (direction) | 0 | | | |
| | | | Temperature | Aanderaa RCM | [±0.02C°,0.15C°] | 1 | | | |
| | | | Salinity | Aanderaa RCM | [±0.1°/oo],NS | 1 | | | |
| | | | Water levels | Steven | NS | 2 | | | |
| 1976-0015 | INNOVATIVE VENTURES FOR PANARCTIC OILS LTD. | May 15-June 16 | Currents | Aanderaa RCM | NS, [±.01 m/s](speed) | 1 | Arnot Strait, Erskine Inlet | | Innovative Ventures'(1976) |
| | | | | | NS (direction) | 1 | | | |
| | | | Temperature | Aanderaa RCM | [±0.02,0.15C°] | 2 | | | |
| | | | Salinity | Aanderaa RCM | [±0.1°/oo],NS | 2 | | | |
| 1976-0016 | DEPT. FISHERIES AND ENV., C.C.I.W. | Mar. 16-May 7 | Currents | Marsh-McBirney, Endeco E.M. | NS, [±.01 m/s](speed) | 3 | Penny Strait, Belcher Channel | | Peck (1977) |
| | | | | | NS,[±2] (speed) | 3 | | | |
| | | | Temperature | Aanderaa RCM | NS,[±.05C°] | 3 | | | |
| | | | Salinity | Aanderaa RCM | NS,[±.15°/oo] | 3 | | | |
| | | | Water levels | Aanderaa WLR | NS | 3 | | | |

TABLE 1: SUMMARY LISTING OF DATASETS (Con't)

| Data Set I.D. | Ship or collecting agency | Dates of measurements | Quantity measured | Instruments or methods used NS=Unknown | Estimate of data precision and accuracy | Data rating number | Area | Concurrent measurements | Source or reference |
|---|---|---|---|---|---|---|---|---|---|
| 1976-0017 | DEPT. OF FISH. & ENV., FROZEN SEA RES., INSTITUTE OF OCEAN SCIENCES | Apr.20,1976-<br>Aug.11,1977 | Currents | Aanderaa RCM | NS, [±.01 m/s](speed)<br>NS,±5-7 (direction) | 3<br>3 | Byam Channel,<br>Austin Channel | | Greisman & Lake (1978)<br>Frozen Sea Research Group (1976b) |
| | | | Temperature | Guildline 8101A | ±.002C°,.01C° | 4 | | | |
| | | | Salinity | Guildline 8101A | ±.004°/oo,.02°/oo | 4 | | | |
| | | | Temperature | Aanderaa RCM | [±0.02,0.15C°] | 3 | | | |
| | | | Salinity | Aanderaa RCM | [±0.1°/oo],NS | 3 | | | |
| 1976-0018 | DEPT. OF FISH. & ENV., FROZEN SEA RES., INSTITUTE OF OCEAN SCIENCES | Mar. 8-31 | Temperature | Guildline 8101A | ±.002C°,.005-.01C° | 3 | d'Iberville Fiord,<br>Greely Fiord,<br>Nansen Sound | $O_2$ | Frozen Sea Research Group (1976) |
| | | | Salinity | Guildline 8101A | ±.004°/oo,.02°/oo | 3 | | | |
| | | | Water levels | FSRG gauge | ±.004 m, .02 m | 3 | | | |
| 1976-0019 | PANARCTIC OILS LTD. | Dec.21,1976-<br>Mar. 2,1977 | Water levels | NS | NS | 2 | East Sabine Peninsula (Drake P-40) | | Van Ieperen (1981) |
| 1977-0016 | LGL LTD. FOR PETRO-CANADA | August | Temperature | Rev. therm. | ±[.02],.05C° | 3 | Austin Ch.,<br>McDougall Sd. | $O_2$,$NO_3$,<br>Chl.A,plankton,<br>$NO_2$,$PO_4$,$SiO_3$,<br>benthos,fish | Thomson, Martin & Cross (1986) |
| | | | Salinity | Refractometer or | ±[.5],.5°/oo | 3 | | | |
| | | | | Salinometer | [±.01,.02°/oo] | 3 | | | |
| 1977-0019 | DEPT. OF FISH. & ENV., FROZEN SEA RES., INSTITUTE OF OCEAN SCIENCES, TRACKED VEHICLES | Mar. 4-27 | Temperature | Guildline 8101A | ±.002C°,.005C° | 4 | d'Iberville Fiord | Nutrients,$O_2$,<br>deuterium,<br>tritium | Frozen Sea Research Group (1977a) |
| | | | Salinity | Guildline 8101A | ±.004°/oo,.01°/oo | 4 | | | |
| | | | Water levels | Aanderaa WLR | NS | 2 | | | |
| 1977-0022 | INNOVATIVE VENTURES LTD. FOR PANARCTIC OILS LTD. | Mar. 24-<br>May 1 | Currents | Aanderaa RCM | NS, [±.01 m/s](speed)<br>NS (direction) | 3<br>3 | Hecla and Griper Bay (Hecla C-58) | | Innovative Ventures (1977a) |
| | | | Temperature | Aanderaa RCM | [±.02C°,.15C°] | 3 | | | |
| | | | Salinity | Aanderaa RCM | [±.1°/oo],NS | 3 | | | |
| | | Feb. 23-<br>Apr. 26 | Water levels | NS | NS | 2 | | | |
| 1977-0023 | INNOVATIVE VENTURES LTD. FOR PANARCTIC OILS LTD. | Mar. 2 -<br>July 1 | Currents | Aanderaa RCM | NS, [±.01 m/s](speed)<br>NS (direction) | 2<br>2 | Hazen Strait,<br>MacLean Strait | | Innovative Ventures Ltd.(1977b) |
| | | | Temperature | Aanderaa RCM | [±.02,.15C]° | 2 | | | |
| | | | Salinity | Aanderaa RCM | [±.1°/oo],NS | 2 | | | |
| 1977-0024 | PANARCTIC OILS LTD. | Dec.19,1977-<br>Apr.17, 1978 | Water levels | Steven | NS | 1 | Hecla and Griper Bay (C. Grassy I-34) | | Panarctic Oils Ltd. (1978a) |
| | | | Currents | Aanderaa RCM | NS, [±.01 m/s](speed) | 1 | | | |
| | | | Temperature | Guildline 8705 | NS | 3 | | | |
| | | | Salinity | Guildline 8705 | NS | 3 | | | |
| | | | Temperature | Aanderaa RCM | [±.02,.15C°] | 2 | | | |
| | | | Salinity | Aanderaa RCM | [±.1°/oo],NS | 2 | | | |

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| Data Set I.D. | Ship or collecting agency | Dates of measurements | Quantity measured | Instruments or methods used NS=Unknown | Estimate of data precision and accuracy | Data rating number | Area | Concurrent measurements | Source or reference |
|---|---|---|---|---|---|---|---|---|---|
| 1977-0025 | PANARCTIC OILS LTD. | Nov.5,1977-<br>Apr.17,1978 | Water levels | Steven | NS | 1 | Hazen Strait<br>(Roche G-43) |  | Panarctic Oils Ltd. (1978b) |
|  |  |  | Currents | Aanderaa RCM | NS, [±.01 m/s](speed)<br>NS, (direction) | 1<br>1 |  |  |  |
|  |  |  | Temperature | Guildline 8705 | NS | 3 |  |  |  |
|  |  |  | Salinity | Guildline 8705 | NS | 3 |  |  |  |
|  |  |  | Temperature | Aanderaa RCM | [±.02,.15C°] | 2 |  |  |  |
|  |  |  | Salinity | Aanderaa RCM | [±.1°/oo],NS | 2 |  |  |  |
| 1977-0026 | DEPT. OF FISH. & ENV., FROZEN SEA. RES., INSTITUTE OF OCEAN SCIENCES, TRACKED VEHICLE | Mar.25,1977-<br>Mar.22,1978 | Currents | Aanderaa RCM | NS, [±.01 m/s](speed)<br>NS (direction) | 3<br>3 | Crozier Strait,<br>Pullen Strait |  | Frozen Sea Research Group (1977b)<br>Greisman & Lake (1978) |
|  |  |  | Temperature | Guildline 8101A | ±.002C°,.005C° | 4 |  |  |  |
|  |  |  | Temperature | Aanderaa RCM | [±.02,.15C°] | 3 |  |  |  |
|  |  |  | Salinity | Aanderaa RCM | [±.1°/oo],NS | 3 |  |  |  |
|  |  |  | Salinity | Guildline 8101A | ±.004°/oo,.01°/oo | 4 |  |  |  |
|  |  |  | Water levels | Aanderaa WLR-4 | [±.002 m, .02 m] | 3 |  |  |  |
| 1977-0033 | PETRO-CANADA | Nov.28,1977-<br>July 18,1978 | Currents | Aanderaa RCM-4 | NS, [±.01 m/s](speed)<br>NS (direction) | 0<br>0 | Maclean Str., Hazen Str., Edingburgh Sea, Prince Gustaf Adolf Sea, West Lougheed Island | Ice motions, wind speed & direction, air temperature | Fissel (1982) |
| 1977-0119 | B.C. RESEARCH FOR COMINCO LTD. | Aug.26-28 | Temperature | NS | NS | 2 | McDougall Sd. | $O_2$, pH, metal, nutrients, turbidity, plankton, benthos, sediment | B.C. Research (1978) |
|  |  |  | Salinity | NS | NS | 2 |  |  |  |
| 1978-0007 | DEPT. OF FISH. & ENV., CENTRAL REGION (C.C.I.W.) | Mar. 15-<br>Apr. 26 | Currents | Aanderaa RCM | NS, [±.01 m/s](speed)<br>NS (direction) | 3<br>3 | Byam Channel, Austin Channel, McDougall Sound |  | Prinsenberg (1978)<br>Peck (1980a) |
|  |  |  | Temperature | Guildline 8706 | [±.0005C°],.01C° | 4 |  |  |  |
|  |  |  | Salinity | Guildline 8706 | [±.001°/oo],.01°/oo | 4 |  |  |  |
|  |  |  | Temperature | Aanderaa RCM | [±.02,.15C°] | 3 |  |  |  |
|  |  |  | Salinity | Aanderaa RCM | [±.1°/oo],NS | 3 |  |  |  |
| 1978-0010 | PANARCTIC OILS LTD. | Jan. 21-<br>Apr. 29 | Currents | Aanderaa RCM | NS, [±.01 m/s](speed)<br>NS (direction) | 1<br>1 | East Sabine Peninsula |  | Van Ieperen (1981) |
|  |  |  | Water levels | NS | NS | 2 |  |  |  |
|  |  |  | Temperature | Aanderaa RCM | [±.02,.15C°] | 2 |  |  |  |
|  |  |  | Salinity | Aanderaa RCM | [±.1°/oo],NS | 2 |  |  |  |
| 1978-0011 | PANARCTIC OILS LTD. | Jan. 23-<br>June 24 | Currents | Aanderaa RCM | NS, [±.01 m/s](speed)<br>NS (direction) | 1<br>1 | Edingburgh Sea,<br>Norwegian Bay |  | Panarctic Oils Ltd. (1979d) |
|  |  |  | Temperature | Aanderaa RCM | [±.02,.15C°] | 2 |  |  |  |
|  |  |  | Salinity | Aanderaa RCM | [±.1°/oo],NS | 2 |  |  |  |

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| Data Set I.D. | Ship or collecting agency | Dates of measurements | Quantity measured | Instruments or methods used NS=Unknown | Estimate of data precision and accuracy | Data rating number | Area | Concurrent measurements | Source or reference |
|---|---|---|---|---|---|---|---|---|---|
| 1978-0012 | DEPT. OF FISH. & ENV., FROZEN SEA RES., INSTITUTE OF OCEAN SCIENCES | Mar. 19-<br>July 9 | Currents | Aanderaa RCM | NS, [±.01 m/s](speed)<br>NS (direction) | 3<br>3 | Wellington Channel, Crozier Strait, Pullen Strait | | Frozen Sea Research Group (1981) |
| | | | Temperature | Guildline 8101A | ±.002C°,.005C° | 4 | | | |
| | | | Salinity | Guildline 8101A | ±.004°/oo,.01°/oo | 4 | | | |
| | | | Temperature | Aanderaa RCM | [±.02,.15C°] | 3 | | | |
| | | | Salinity | Aanderaa RCM | [±.1°/oo],NS | 3 | | | |
| 1978-0013 | PANARCTIC OILS LTD. | Dec.3, 1978-<br>May 3, 1979 | Currents | Aanderaa RCM-4 | NS, [±.01 m/s](speed)<br>NS (direction) | 1<br>1 | Hazen Strait (Hazen F-54) | | Panarctic Oils Ltd. (1979a) |
| | | | Temperature | Guildline 8705 | [±.0005C°,.005C°] | 3 | | | |
| | | | Salinity | Guildline 8705 | [±.001°/oo,.005°/oo] | 3 | | | |
| | | | Temperature | Aanderaa RCM-4 | [±.02,.15C°] | 2 | | | |
| | | | Salinity | Aanderaa RCM-4 | [±.1°/oo],NS | 2 | | | |
| | | | Water levels | Steven | NS | 1 | | | |
| 1978-0014 | PANARCTIC OILS LTD. | Dec.19,1978-<br>Apr.6,1979 | Currents | Aanderaa RCM | NS,[±.01 m/s](speed)<br>NS (direction) | 3<br>3 | Desbarats Strait (Desbarats B-73) | | Panarctic Oils Ltd. (1979b)<br>Strandberg (1979) |
| | | | Temperature | Guildline 8705 | [±.005C°,.005C°] | 3 | | | |
| | | | Salinity | Guildline 8705 | [±.001°/oo,.005°/oo] | 3 | | | |
| | | | Temperature | Aanderaa RCM-4 | [±.02,.15C°] | 2 | | | |
| | | | Salinity | Aanderaa RCM-4 | [±.1°/oo],NS | 2 | | | |
| | | | Water levels | Steven 2A-35 | NS | 2 | | | |
| 1978-0016 | PANARCTIC OILS LTD. | Jan. 21-<br>Apr. 29 | Water levels | NS | NS | 2 | E. Sabine Pen. (Drake F-76) | | Van Ieperen (1981)<br>Masterson & Strandberg (1978) |
| 1979-0017 | PETRO-CANADA | Jan. 25-<br>June 22 | Currents | Aanderaa RCM | NS, [±.01 m/s](speed)<br>NS (direction) | 1<br>1 | Maclean Str., Hazen Str., Edingburgh Sea, Prince Gustaf Adolf Sea, West Lougheed Island | Ice motion, wind speed & direction, air temperature | Fissel (1982) |
| 1979-0018 | PANARCTIC OILS LTD. | Jan. 9-<br>May 9 | Currents | Aanderaa RCM | NS, [±.01 m/s](speed)<br>NS (direction) | 1<br>1 | West Lougheed Island (Whitefish H-63) | | Panarctic Oils Ltd. (1979c)<br>Masterson & Strandberg (1979) |
| | | | Temperature | Guildline 8705 | [±.0005C°,.005C°] | 3 | | | |
| | | | Salinity | Guildline 8705 | [±.001°/oo,.005°/oo] | 3 | | | |
| | | | Temperature | Aanderaa RCM-4 | [±.02,.15C°] | 2 | | | |
| | | | Salinity | Aanderaa RCM-4 | [±.1°/oo],NS | 2 | | | |
| | | | Water levels | Steven,<br>Aanderaa WLR-5 | NS<br>NS | 1<br>2 | | | |
| 1979-0019 | DEPT. OF FISH. & OCEANS, CENTRAL REGION (C.C.I.W.) | Apr. 3-<br>May 9 | Currents | Aanderaa RCM-4 | NS, [±.01 m/s](speed)<br>NS (direction) | 3<br>3 | Byam Martin Channel, Hazen Strait, Wilkins Strait, Desbarats Strait | | Peck (1980a,b) |
| | | | Temperature | Guildline 8706 | [±.0005C°],.01C° | 4 | | | |
| | | | Salinity | Guildline 8706 | [±.001°/oo,],.01°/oo | 4 | | | |
| | | | Temperature | Aanderaa RCM-4 | [±.02,.15C°] | 3 | | | |
| | | | Salinity | Aanderaa RCM-4 | [±.1°/oo],NS | 3 | | | |

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| Data Set I.D. | Ship or collecting agency | Dates of measurements | Quantity measured | Instruments or methods used NS=Unknown | Estimate of data precision and accuracy | Data rating number | Area | Concurrent measurements | Source or reference |
|---|---|---|---|---|---|---|---|---|---|
| 1979-0020 | PANARCTIC OILS LTD. | Nov.11,1979-May 13,1980 | Currents | Aanderaa RCM | NS, [±.01 m/s](speed)<br>NS (direction) | 3<br>3 | Hazen Strait, West Lougheed Island (Whitefish H-63A) | | Panarctic Oils Ltd. (1980a)<br>Strandberg & Hall (1980) |
| | | | Temperature | Aanderaa RCM | [±.02,.15C°] | 2 | | | |
| | | | Salinity | Aanderaa RCM | [±.1°/oo],NS | 2 | | | |
| | | | Temperature | Guildline 8705 | [±.0005C°,.005C°] | 1 | | | |
| | | | Salinity | Guildline 8705 | [±.001°/oo,.005°/oo] | 1 | | | |
| | | | Water levels | Steven | NS | 3 | | | |
| 1979-0021 | CANADIAN HYDROGRAPHIC SERVICE | Mar. 1-Apr. 23 | Water levels | Aanderaa WLR-5 or AML TG-12A | [±.002m, .02 m] | 3 | Hazen Strait, MacLean Strait, Edingburgh Sea, Penny Strait, Belcher Chan., Wellington Chan. | | Sandilands, Solvason & St. Jacques (1985) |
| 1979-0022 | PANARCTIC OILS LTD. | Dec.5,1979-Apr.27,1980 | Currents | Aanderaa RCM | NS, [±.01 m/s](speed)<br>NS (direction) | 1<br>1 | Hazen Strait, Edingburgh Sea (Char G-07) (Balaena D-58) | | Panarctic Oils Ltd. (1980b)<br>Van Ieperen (1981) |
| | | | Temperature | Guildline 8705 | [±.0005C°,.005C°] | 1 | | | |
| | | | Salinity | Guildline 8705 | [±.001°/oo,.005°/oo] | 1 | | | |
| | | | Temperature | Aanderaa RCM | [±.02,.15C°] | 2 | | | |
| | | | Salinity | Aanderaa RCM | [±.1°/oo],NS | 2 | | | |
| | | | Water levels | Stephen,<br>Aanderaa WLR | NS<br>NS | 2<br>2 | | | |
| 1980-0013 | DEPT. OF FISH. & OCEANS, INSTITUTE OF OCEAN SCIENCES, FROZEN SEA RESEARCH GROUP | Mar. 8-Apr. 12 | Currents | Aanderaa RCM-4 | NS, [±.02 m/s](speed)<br>NS (direction) | 3<br>3 | Dundas Island | Meteorological and turbulent atmospheric fluxes | Topham et al. (1983) |
| | | | Temperature | Aanderaa RCM-4 | NS | 3 | | | |
| | | | Salinity | Aanderaa RCM-4 | NS | 3 | | | |
| 1980-0014 | DOBROCKY SEATECH LTD. FOR POLAR GAS | Apr. 10-May 1 | Currents | Aanderaa RCM-4 | NS, [±.01 m/s](speed)<br>NS (direction) | 3<br>3 | West Lougheed Island | | Juhasz (1980) |
| | | | Water levels | Aanderaa WLR5A | [±.002m, .02 m] | 3 | | | |
| | | | Temperature | Aanderaa RCM | [±.02,.15C°] | 3 | | | |
| | | | Salinity | Aanderaa RCM | [±.1°/oo],NS | 3 | | | |
| 1980-0015 | CANADIAN HYDROGRAPHIC SERVICE | Mar. 24-Apr. 26 | Water levels | Aanderaa WLR-5 | [±.002m, .02 m] | 3 | Queens Channel, Wellington Channel | | Canadian Hydrographic Service |
| 1981-0007 | DEPT. OF FISH. & OCEANS, CENTRAL REGION (C.C.I.W.) | Apr.19 - 25 | Temperature | Guildline 8706 | [±.0005C°],.005C° | 4 | Wellington Channel, McDougall Sound | | Prinsenberg & Sosnoski (1983)<br>Prinsenberg & Bennett (1988) |
| | | | Salinity | Guildline 8706 | [±.001°/oo],.01°/oo | 4 | | | |
| 1981-0019 | CANADIAN HYDROGRAPHIC SERVICE | Mar. 4-Apr. 20 | Water levels | Aanderaa WLR-5,<br>AML TG3A | [±.002 m,.02 m]<br>[±.002 m,.02 m] | 3<br>3 | Norwegian Bay,<br>Belcher Channel | | Canadian Hydrographic Service |

TABLE 1: SUMMARY LISTING OF DATASETS (Con't)

| Data Set I.D. | Ship or collecting agency | Dates of measurements | Quantity measured | Instruments or methods used NS=Unknown | Estimate of data precision and accuracy | Data rating number | Area | Concurrent measurements | Source or reference |
|---|---|---|---|---|---|---|---|---|---|
| 1981-0108 | DEPT. OF FISH. & OCEANS, WESTERN REGION (FRESH WATER INST.) | Aug. 20 | Temperature<br>Salinity | NS<br>NS | NS<br>NS | 2<br>2 | McDougall Sd. | Biota:metals, zoobenthos, fish. | Freshwater Inst. (B.W. Fallis) |
| 1981-0116 | PANARCTIC OILS LTD., AIEG ICE MOTION & OCEAN. STUDY | Jan. 18 - June 12 | Water levels | AML TG3A | [± .002 m,.02m] | 4 | Norwegian Bay | | Sandilands, Solvason & St. Jacques (1985) |
| 1981-0117 | FENCO FOR PANARCTIC OILS LTD. | Jan. 1 - Apr. 23 | Water levels | Steven's 2A-35 | ±NS, .05m | 3 | West Lougheed Is., Maclean Strait | | Fenco (1981), Van Ieperen (1982a,b) |
| 1982-0003 | ARCTIC SCIENCES LTD. FOR INST. OF OCEAN SCI., TWIN OTTER | Mar. 22 - 25 | Temperature<br>Salinity | Guildline 8706<br>Guildline 8706 | ± .001C°,.01C°<br>± .001C°,.01°/oo | 4<br>4 | Penny Strait, Maclean Strait Byam Martin Ch. | $SiO_3$, $NO_3$, $PO_4$ | Fissel, Knight & Birch (1984)<br>Melling et al. (1984) |
| 1982-0107 | DEPT. OF FISH. & OCEANS, CENTRAL REGION (C.C.I.W.), HELICOPTER | Apr. 8 - 10 | Temperature<br>Conductivity | NS<br>NS | NS<br>NS | 2<br>2 | McDougall Sd., Wellington Ch. | Biol: phytoplankton, zooplankton<br>Chem: $SiO_3$, $NO_3$, $NO_2$, $PO_4$ | Unpub. data; Dr. N. Watson, Mar. Ecol. Lab BIO |
| 1982-0129A | PANARCTIC OILS LTD., AIEG ICE MOTION & OCEAN. STUDY | Jan. 11 - May 16 | Currents | NS | NS<br>NS | 2<br>2 | Norwegian Bay | Ice Motion | Van Ieperen (1983) |
| 1982-0129B | PETRO-CANADA & PHILLIPS PET. CANADA LTD. | NS | Currents | Aanderaa RCM | ± .008 m/s (speed)<br>± 5° (direction) | 3<br>3 | Norwegian Bay | | Van Ieperen (1983) |
| 1982-0130 | DOBROCKY SEATECH & FENCO CONS. LTD. FOR PANARCTIC OILS LTD. | Jan.19 - 22, May 8 - 9<br>Jan. 20 - May 9 | Temperature<br>Salinity<br>Currents | Guildline 8705<br>Guildline 8705<br>Aanderaa RCM | ±NS,.01C°<br>±NS,.02°/..<br>±.005 m/s,.008m/s(sp)<br>±.5°,5° (direction) | 3<br>3<br>3<br>3 | Lougheed Is. & Pr. Gustaf Adolf Sea (Cape Mamen F-24, Sculpen K-08, Hecla N-52,Whitefish A-26,Cisco C-42) | Meteorological | Van Ieperen(1982a,b) |
| 1982-0131 | CAN. HYDROGR. SERVICE, INST. OF OCEAN SCI. | June 6,1982-June 5,1983 | Water levels<br>Temperature | AML TG3A<br>AML TG3A | [±.002 m,.02m]<br>NS | 4<br>2 | Mould Bay, Audhild Bay | | Unpub. data (CHS, IOS) |

TABLE 1: SUMMARY LISTING OF DATASETS (Con't)

| Data Set I.D. | Ship or collecting agency | Dates of measurements | Quantity measured | Instruments or methods used NS=Unknown | Estimate of data precision and accuracy | Data rating number | Area | Concurrent measurements | Source or reference |
|---|---|---|---|---|---|---|---|---|---|
| 1983-0004A | CESAR, FROZEN SEA RES. GROUP, INSTITUTE OF OCEAN SCIENCES | Apr. 1 - May 11 | Temperature | Guildline 8706 | [±.003C°,.003C°] | 4 | Nansen Sound | $NO_3$, $PO_4$, $SiO_3$ | Unpub. data, Perkin (IOS) |
| | | | Salinity | Guildline 8706 | [±.005°/oo,.01°/oo] | 4 | | | |
| 1983-0005 | ARCTIC SCIENCES LTD. FOR IOS, AIRCRAFT | Mar. 26-27 | Temperature | Guildline CTD | [±.001C°,.01C°] | 4 | Prince Gustaf Adolf Sea | $NO_3$, $PO_4$, $SiO_3$ | Fissel, Lemon and Knight (1984) |
| | | | Salinity | Guildline CTD | [±.001°/oo,.01°/oo] | 4 | | | |
| 1983-0008 | DEPT. OF FISH. & OCEANS, INSTITUTE OF OCEAN SCIENCES | Apr. 1983 - May 1984 | Currents | Aanderaa RCM-4 | [±.05,.2% m/s] (speed) | 4 | Byam Martin Channel, Austin Channel | $NO_3$, $PO_4$, $SiO_3$ | deLange Boom, Melling & Lake (1987), Fissel, et al. (1988)<br>Stronach et al.(1987)<br>Buckingham, Lake & Melling (1987a,b) |
| | | | | Aanderaa RCM-4 | [±.4,30°] (direction) | 4 | | | |
| | | | Temperature | Aanderaa RCM-4 | [±.02,.15C°] | 4 | | | |
| | | | Conductivity | Aanderaa RCM-4 | [±.1°/oo],NS | 4 | | | |
| | | Apr.5-May 5 | Water levels | Aanderaa WLR5A | [± .005db,.03db] | 4 | | | |
| | | Mar. 21-30 | Temperature | Guildline 8706 | [±.0005C°,.005C°] | 4 | | | |
| | | | Salinity | Guildline 8706 | [±.001°/oo,.005°/oo] | 4 | | | |
| 1983-0076 | DOBROCKY SEATECH FOR PANARCTIC OILS LTD. | Jan.25-Mar. 27 | Currents | Aanderaa RCM-4 | NS,±.008 m/s (speed) | 3 | Edingburgh Sea (Cape MacMillan 2K-15 & Grenadier A-26), W. Lougheed Is. (Cisco K-58) | Ice motion | Panarctic (1983) |
| | | | Temperature | Guildline 8705 | NS,±5° (direction) | 3 | | | |
| | | | Salinity | Guildline 8705 | NS,±.01C° | 3 | | | |
| | | Nov.27,1982-Apr. 9, 1983 | Water levels | Steven Type F | NS,±2°/oo | 3 | | | |
| | | | | | NS,±.05m | 0 | | | |
| 1983-0077 | CAN. HYDR. SERVICE, INSTITUTE OF OCEAN SCIENCES | June 1983-June 1984 | Water levels | AML TG3A | [±.002m,.02m] | 4 | Isachsen, Mould Bay, Audhild Bay | | Unpub. Data (CHS,IOS) |
| | | | Temperature | AML TG3A | [±NS,.01C°] | 4 | | | |
| 1984-0039 | DEPT. OF FISH. & OCEANS, WESTERN REGION (FRESHWATER INSTITUTE) | Aug. 12-16 | Temperature | NS | NS | 2 | McDougall Sd. | Fish, benthos, sediment, biota | DFO, Winnipeg (B.W. Fallis) |
| | | | Salinity | NS | NS | 2 | | | |
| 1984-0049A | DEPT. OF FISH. & OCEANS, INSTITUTE OF OCEAN SCIENCES | Mar. 30 - Apr. 24 | Temperature | Guildline 8706 | [±.0005C°,.005C°] | 4 | Penny Strait, Hazen Strait, Prince Gustaf Adolf Sea, Ballantyne Str., Wellington Ch., McDougall Sd. | | Buckingham, Lake and Melling (1987c,d)<br>Fissel et al. (1988)<br>Stronach et al. (1987) |
| | | | Salinity | Guildline 8706 | [±.001°/oo,.005°/oo] | 4 | | | |
| | | Apr.7, 1984-Apr.18, 1985 | Currents | RCM-4, RCM-12 | [NS,±.008 m/s] | 4 | | | |
| | | Apr. - June | Water levels | TG12A, WLR5A | [±.002m,.02m] | 4 | | | |
| | | | Temperature | RCM-4 | [±.02,.15C°] | 4 | | | |
| | | | Conductivity | RCM-4 | [±.1°/oo],NS | 4 | | | |
| 1984-0049B | DEPT. OF FISH. & OCEANS, INSTITUTE OF OCEAN SCIENCES, ARCTIC SHELF PROGRAM | Mar. 26-Apr. 24 | Temperature | Guildline CTD | [±.001C°,.01C°] | 4 | W. Lougheed Is., Penny Strait, Ballantyne Strait | | Perkin (pers. comm.) |
| | | | Salinity | Guildline CTD | [±.001°/oo,.01°/oo] | 4 | | | |
| | | | Currents | Aanderaa RCM-4 | [NS,±.008m/s] | 2 | | | |
| | | | Temperature | Aanderaa RCM-4 | [±.02,.15C°] | 2 | | | |
| | | | Conductivity | Aanderaa RCM-4 | [±.1°/oo],NS | 2 | | | |

TABLE 1: SUMMARY LISTING OF DATASETS (Con't)

| Data Set I.D. | Ship or collecting agency | Dates of measurements | Quantity measured | Instruments or methods used NS=Unknown | Estimate of data precision and accuracy | Data rating number | Area | Concurrent measurements | Source or reference |
|---|---|---|---|---|---|---|---|---|---|
| 1984-0059 | DOBROCKY SEATECH LTD. & GEOTECHNICAL SERVICES LTD. FOR PANARCTIC OILS LTD. | Jan. 17- Apr. 19 | Currents | Aanderaa RCM-4 | NS,±.025 m/s (speed) | 3 | Norwegian Bay (Buckingham 0-68) | Ice motion | Dobrocky (1984)<br>Van Ieperen (1984) |
| | | | | | NS,±5° (direction) | 1 | | | |
| | | Dec.17,1983- May 12,1984 | Water levels | Steven Type F | NS,±.05m | 3 | | | |
| | | | | Aanderaa TG3a | ±.002m,.02m | 3 | | | |
| | | | Temperature | Aanderaa TG3a | ±.005C°,.01C° | 3 | | | |
| | | | | Guildline 8705 | NS,±.005C° | 3 | | | |
| | | | Salinity | Guildline 8705 | NS,±.01°/oo | 3 | | | |
| 1984-0060 | CAN. HYDR. SERVICE, INSTITUTE OF OCEAN SCIENCES | May 28,1984- May 21,1985 | Water levels | AML TG3A,TG12A | [±.002m,.02m] | 4 | Isachsen, Mould Bay, Audhild Bay | | Unpub. data (CHS,IOS) |
| | | | Temperature | AML TG3A,TG12A | [NS,±.01C°] | 4 | | | |
| 1985-0015 | DALHOUSIE UNIV. DEPT. OF OCEAN. | Apr. 24 | Salinity | NS | NS | 2 | Ballantyne Strait | Si, $NO_3$, $O_2$ | Unpub. data (Dr. R.M. Moore, Dalhousie U.) |
| 1985-0042 | CAN. HYDR. SERVICE, INSTITUTE OF OCEAN SCIENCES | May 17,1985- May 20,1986 | Water levels | AML TG3A, TG12A | [±.002m,.02m] | 4 | Isachsen, Mould Bay, Audhild Bay | | Unpub. data (CHS,IOS) |
| | | | | Aanderaa WLR's | | 4 | | | |
| | | | Temperature | AML TG3A, TG12A | [NS,±.01C°] | 4 | | | |
| | | | | Aanderaa WLR-5 | | | | | |
| 1985-0043 | CAN. HYDR. SERVICE, BAYFIELD INST. | Mar. 15- Apr. 24 | Water levels | Aanderaa WLR-5 | ±.14mb,1.4mb | 4 | Cameron Is. | | Sandilands, Solvason & St. Jacques (1986) |
| 1985-0044 | DEPT. OF FISH. & OCEANS, INSTITUTE OF OCEAN SCIENCES | Apr. 5- May 4 | Temperature | Guildline CTD | [±.001C°,.01C°] | 4 | Mould Bay | | Perkin, IOS (pers. comm.) |
| | | | Salinity | Guildline CTD | [±.001°/oo,.01°/oo] | 4 | | | |
| 1986-0016 | GEOTECH, FOR PANARCTIC OILS LTD. | Dec.17,1985- Apr. 5,1986 | Water levels | NS | NS | 2 | Norwegian Bay (N. Buckingham L-71) | Ice temperature & salinity | Geotech (1986) |
| 1986-0018 | CSS HUDSON; BEDFORD INST. OF OCEANOGRAPHY | Aug.28 - Sept. 12 | Temperature | Guildline 8870 | ±NS,0.02C° | 4 | Wellington Ch., Austin Ch., Byam Ch. | Zooplankton, chlorophyll | Head, Bedo & Harris (1988) |
| | | | Salinity | Guildline 8870 | ±NS,0.04°/oo | 4 | | | |
| 1987-0002 | CSS BAFFIN; CAN. HYDR. SERVICE, BEDFORD INST. OF OCEANOGRAPHY | Sept. 3-18 | Water levels | Ottboro | NS | 3 | Norwegian Bay | | Unpub. data: S. Grant (BIO). |

# 9. MAPS

This section contains maps showing the yearly distribution of temperature, salinity, current and water-level measurements. Three different maps, all in Lambert Conformal Conic projection, have been used to plot data. The overall map has a scale of 1:4,750,000. Two larger scale maps were used to better illustrate the distribution of stations in the southeast sector (Wellington Channel, Penny Strait, etc.), and in the Nansen Sound-Eureka Sound area; scales are 1:2,630,000 and 1:2,000,000 respectively.

Generally, temperature-salinity and any water-level stations are plotted together. If there were also current-meter data, then the first map will have only temperature-salinity, and the current and water-level data will be displayed on a second map. The overall map generally contains all the stations; the sub-maps provide more details and several may be used to display station positions in one area.

For some data sets, exact locations are not known, and this is noted in the map legend.

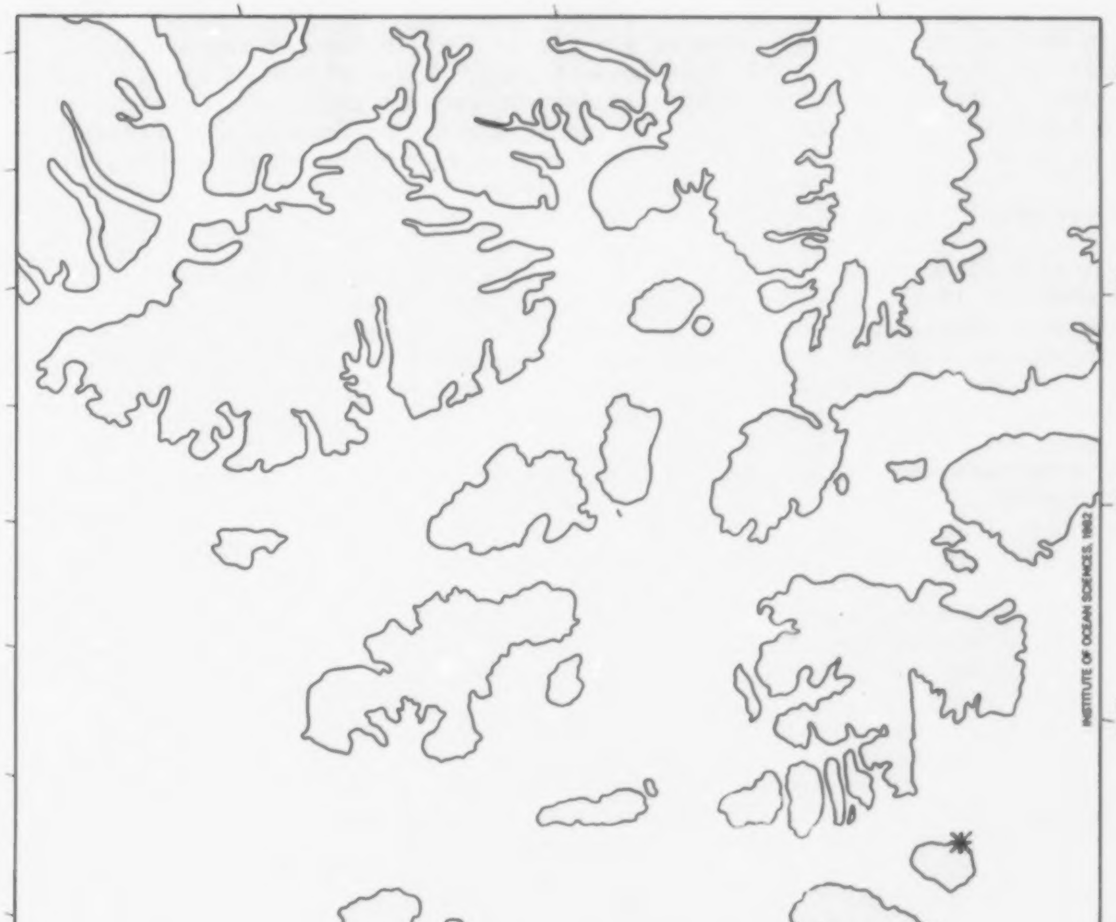
The legend indicates the following data types:

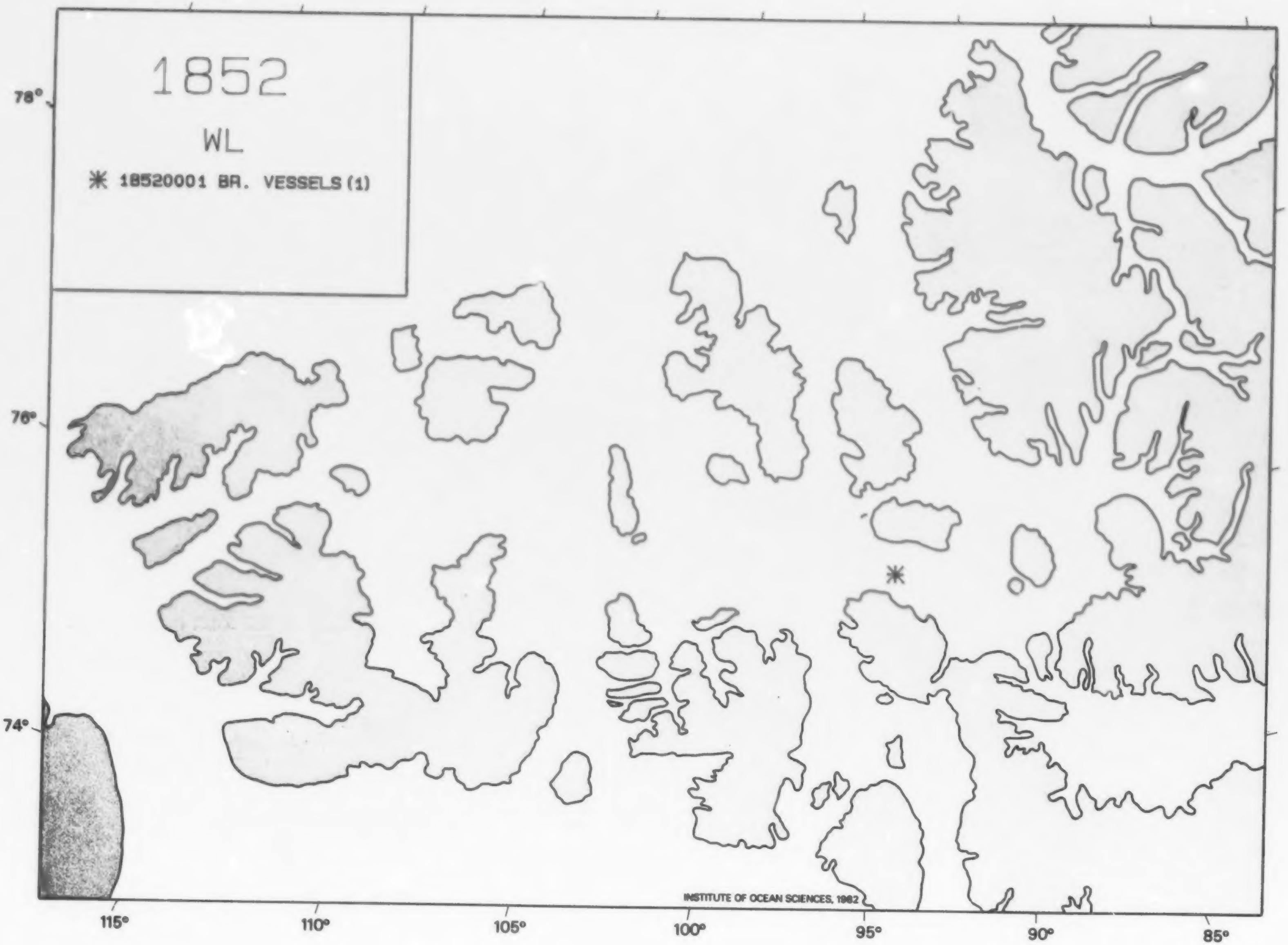
CM - current meter data
TS - temperature-salinity data
WL - water-level data

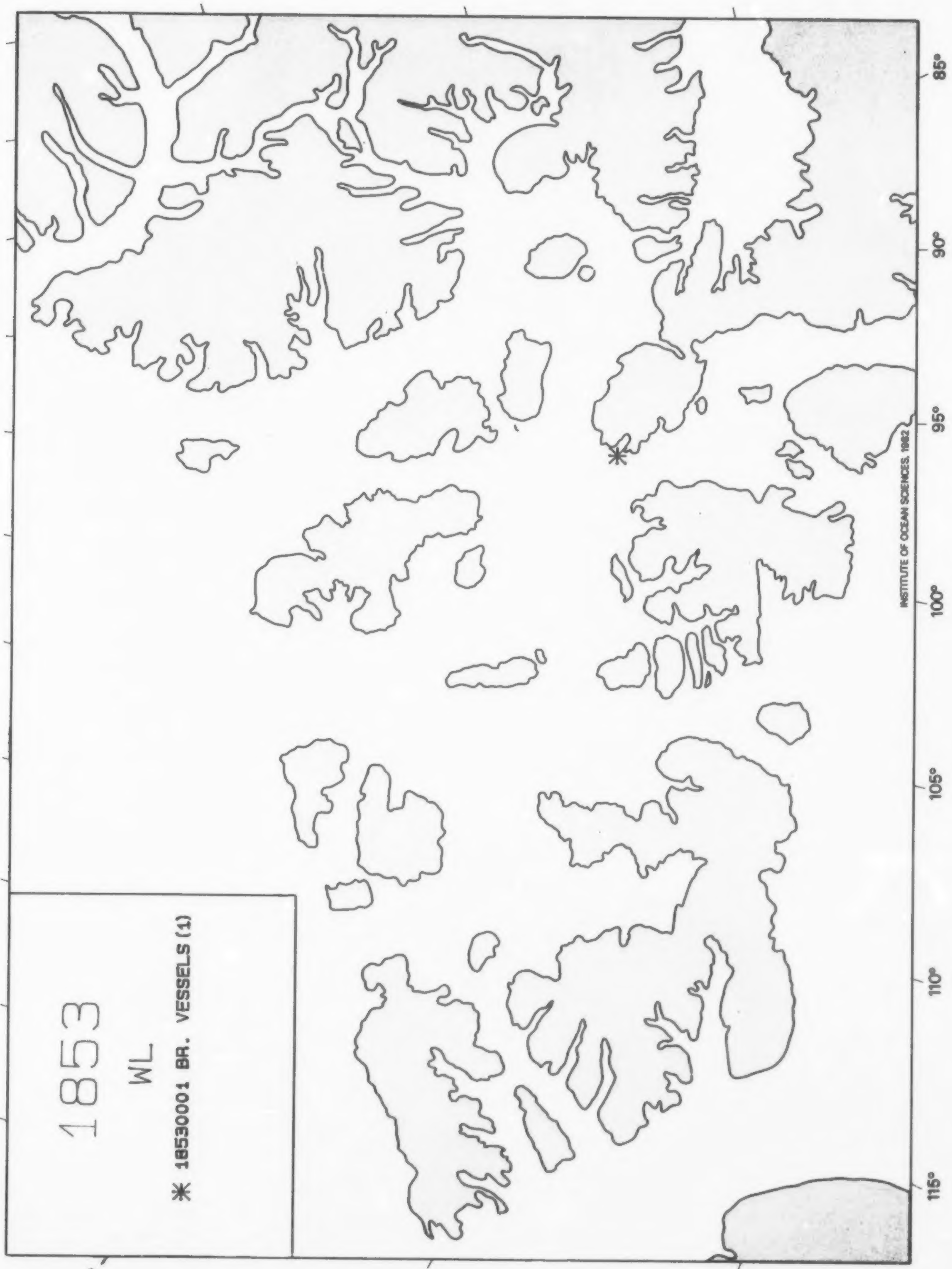
Under each category are listed the data sets and station symbols used in the plot. The identifier number is followed by the vessel/agency and the total number of stations located within the map boundaries, in brackets. Since some stations in a particular data set may be at the same location, the number in brackets may exceed the number of symbols on the plot.

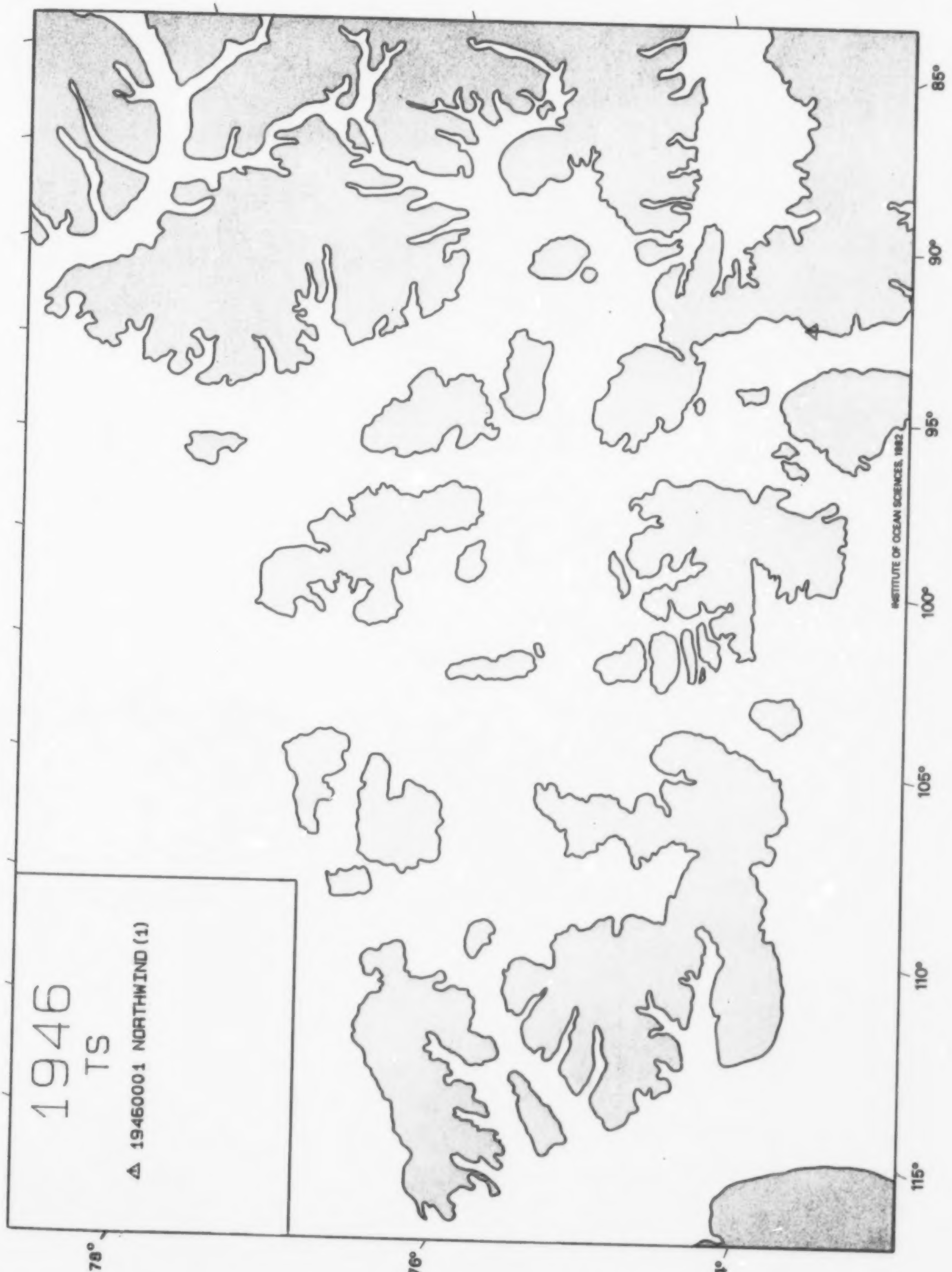
The TS data are primarily profile data, however some moored instruments had temperature and/or conductivity sensors. These can be differentiated in the listings of section 11.

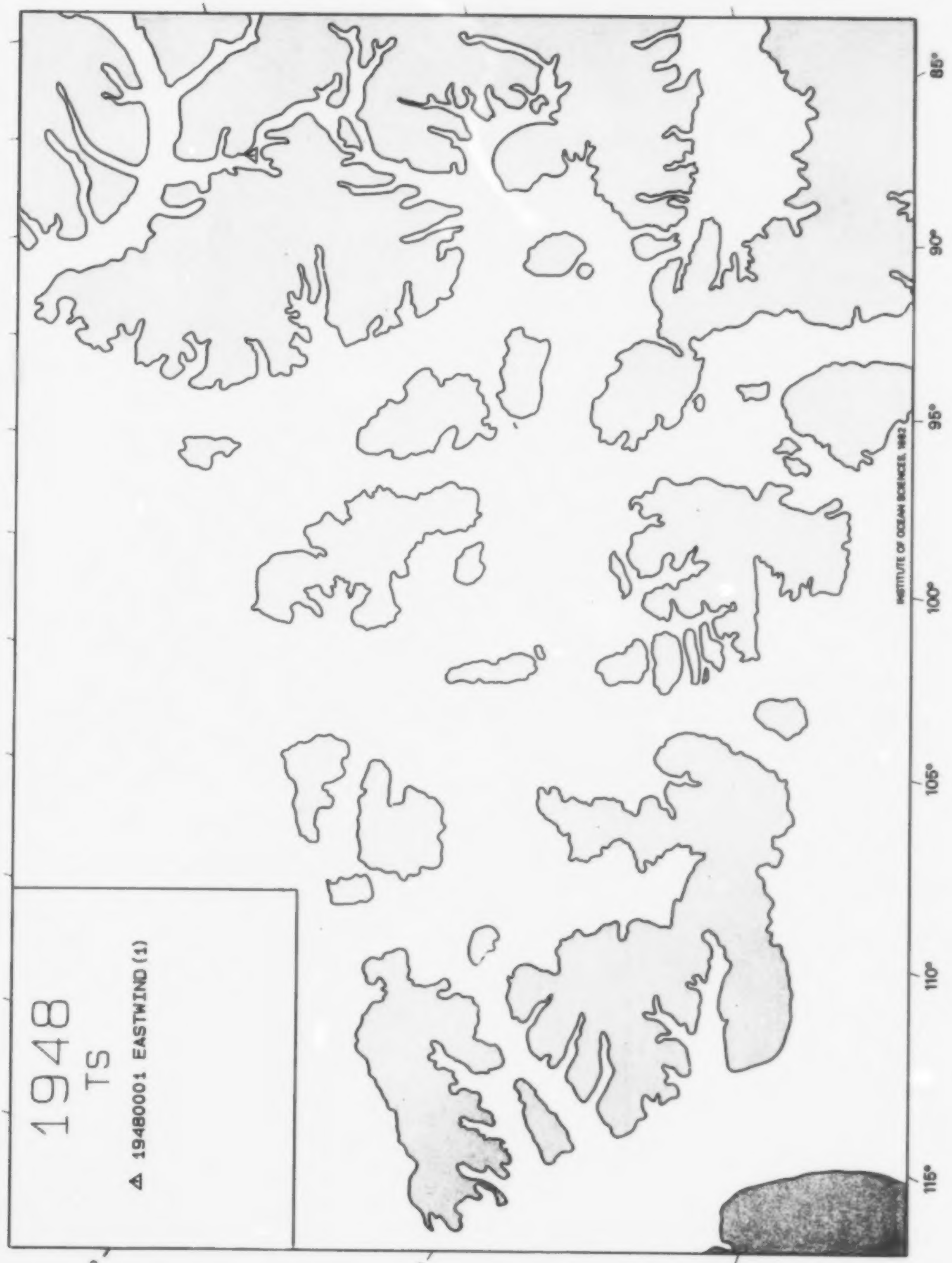
The coastlines have been smoothed and small islands removed. A minimum consecutive displacement of 0.07 inch is required for a new station to be plotted. This was implemented to prevent the plotter from wearing through the paper in heavily sampled locations. Vessel/agencies in the legend are abbreviations. Note that cruise station symbols may be different on two different maps.

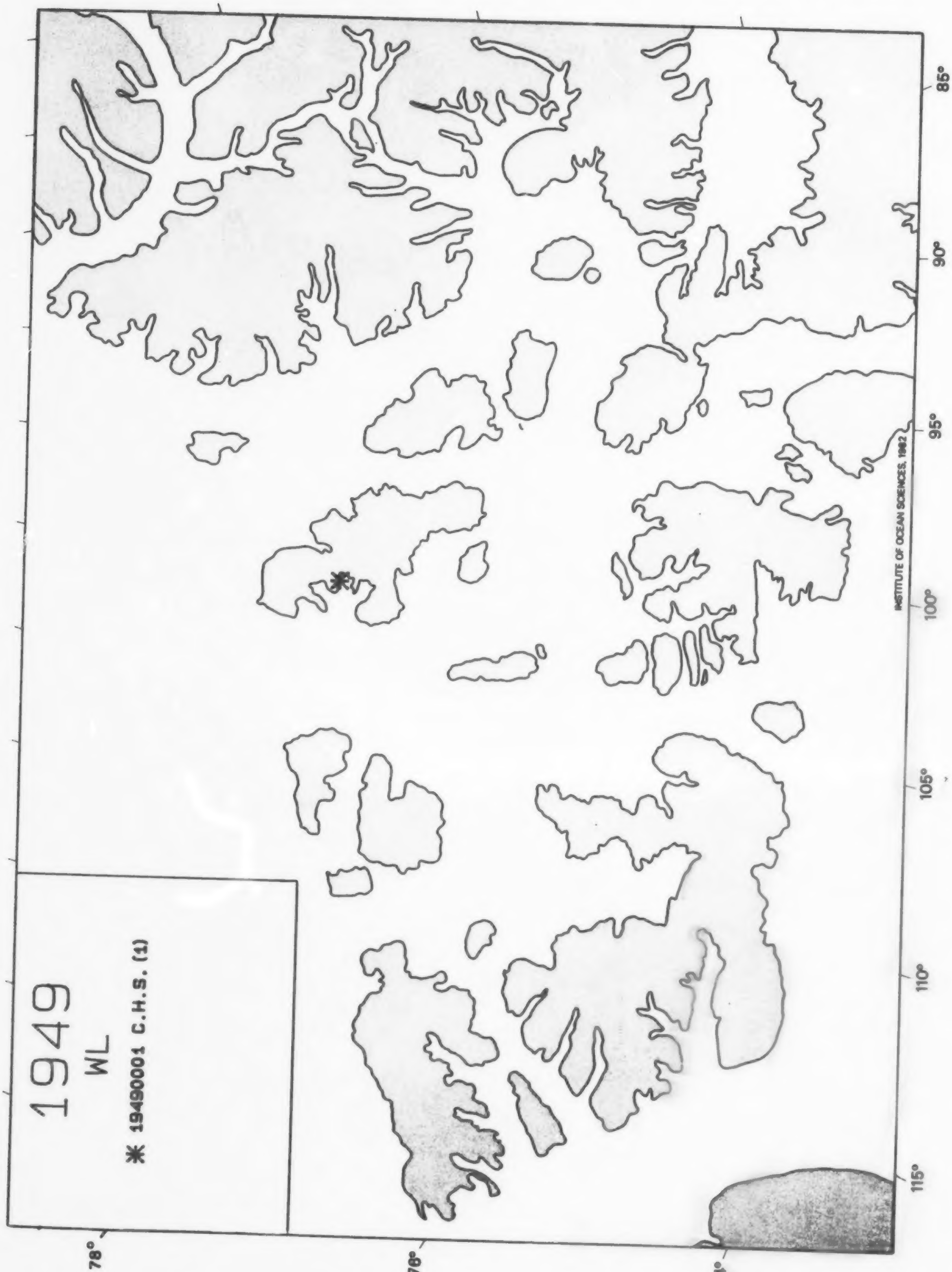

1819
WL
* 18190001 PARRY (1)
85°
90°
95°
100°
105°
110°
115°
78°
76°
74°
INSTITUTE OF OCEAN SCIENCES, 1982

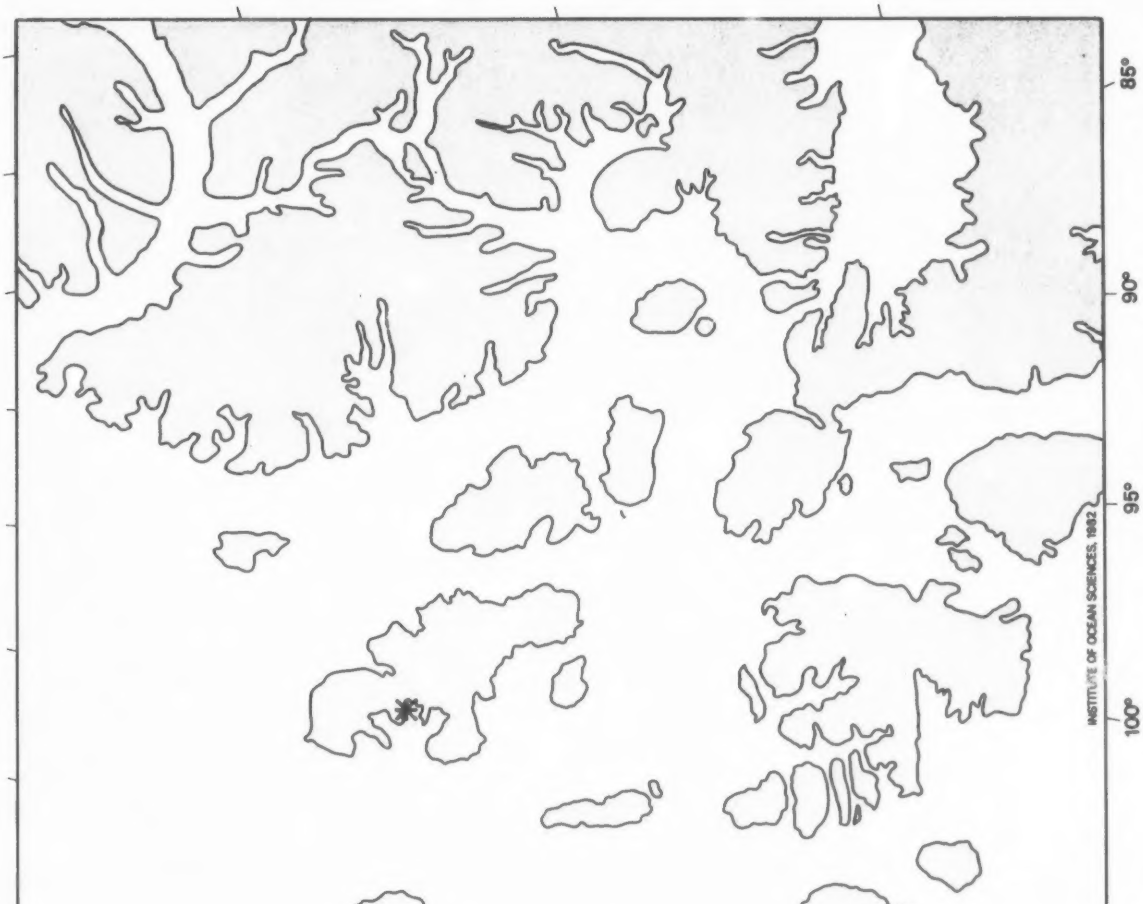

1852
WL
✳ 18520001 BR. VESSELS (1)
78°
76°
74°
115°
110°
105°
100°
95°
90°
85°
INSTITUTE OF OCEAN SCIENCES, 1982

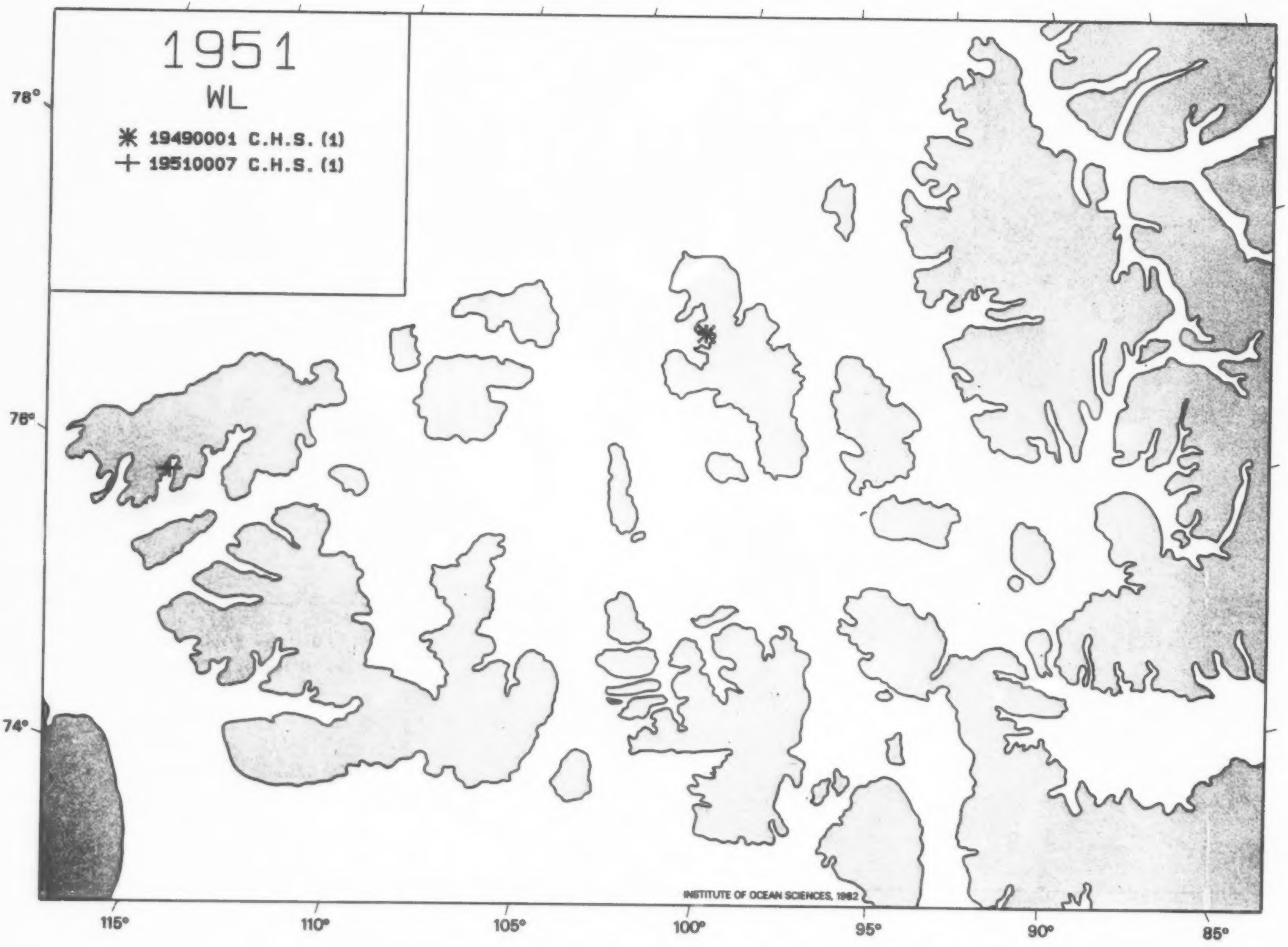

1853
WL
✳ 18530001 BR. VESSELS (1)
INSTITUTE OF OCEAN SCIENCES, 1982
78°
76°
74°
85°
90°
95°
100°
105°
110°
115°

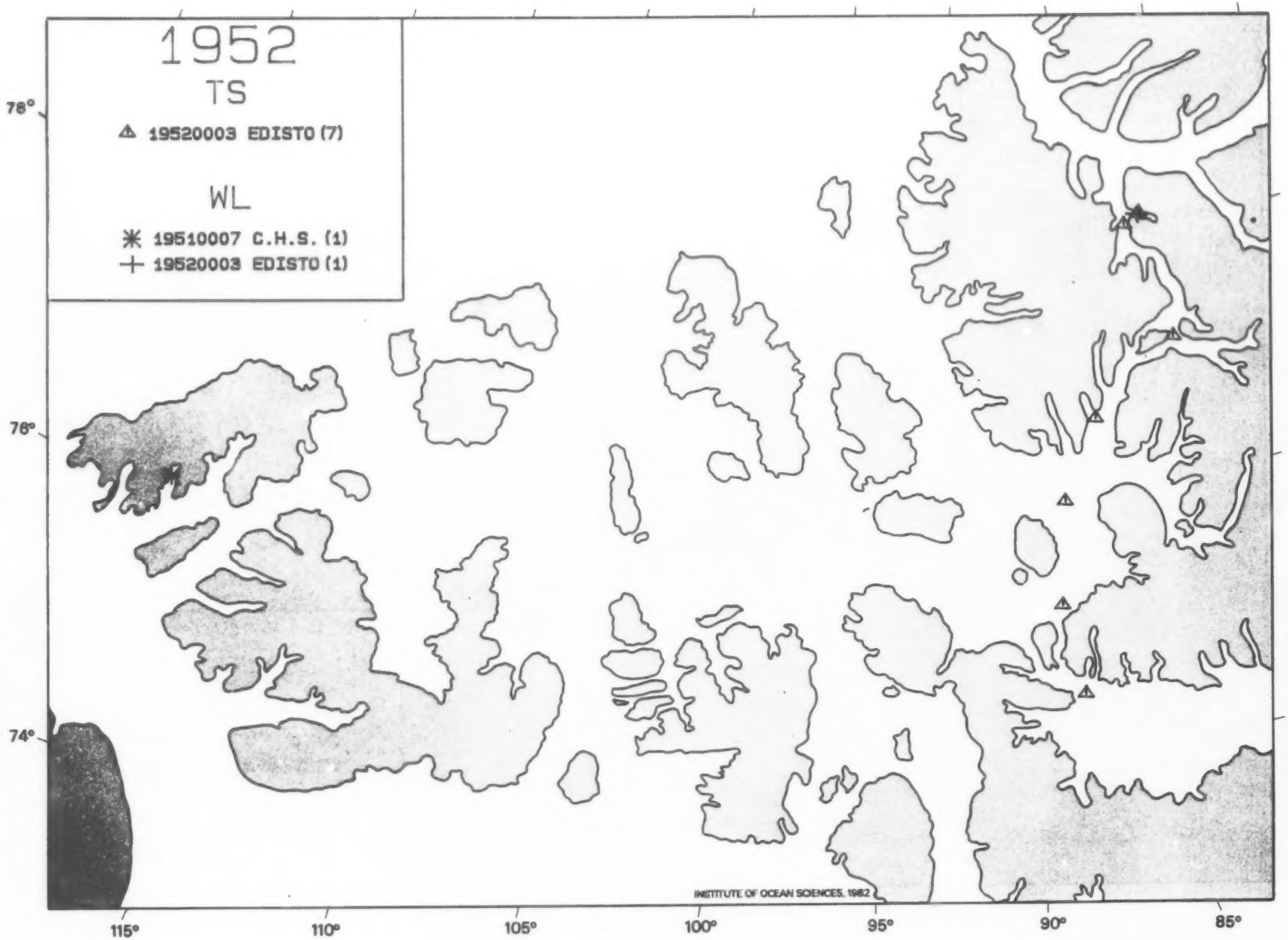

1946
TS
△ 19460001 NORTHWIND (1)
78°
76°
74°
85°
90°
95°
100°
105°
110°
115°
INSTITUTE OF OCEAN SCIENCES, 1982

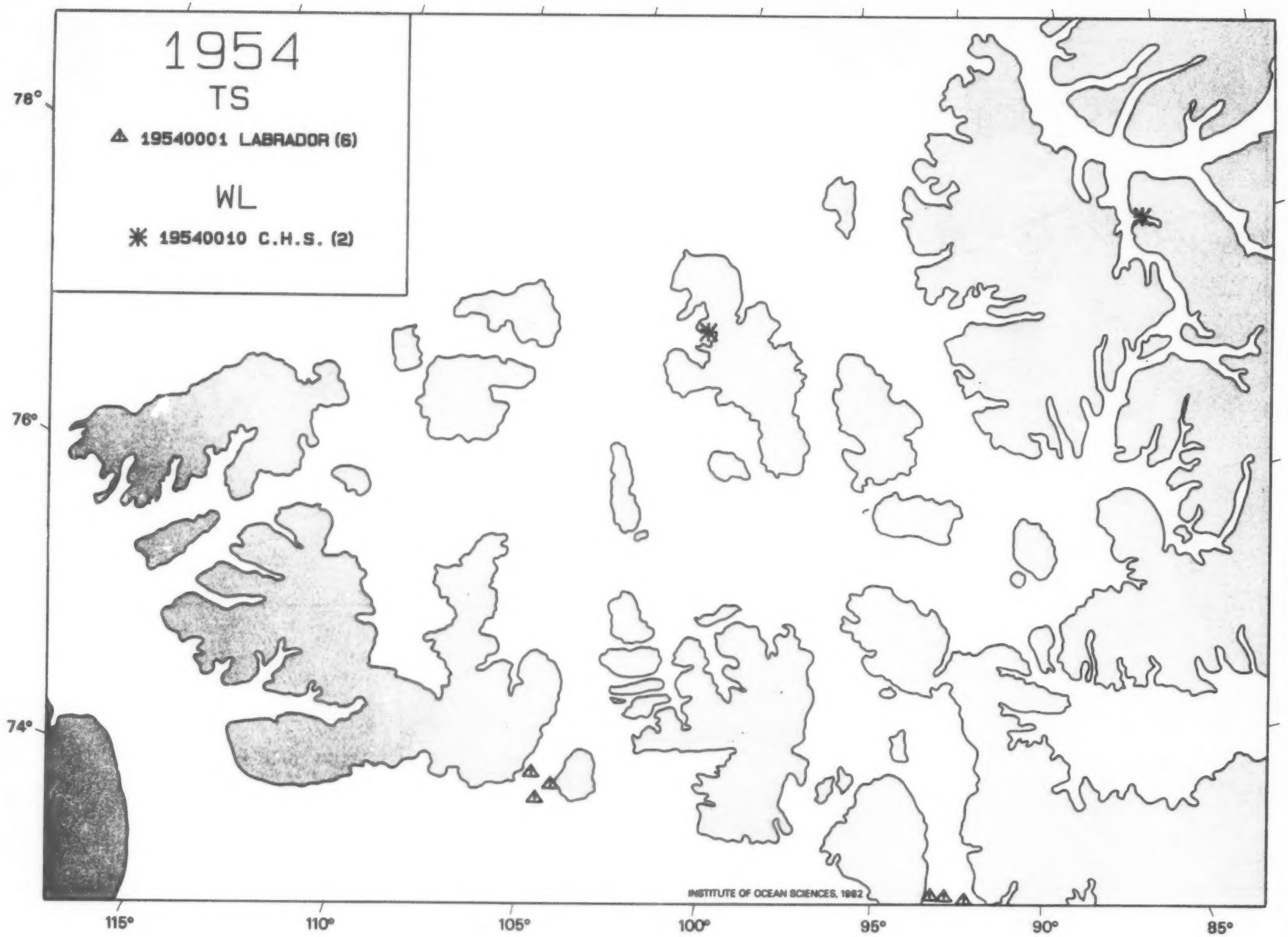

1948
Ts
Δ 19480001 EASTWIND (1)
INSTITUTE OF OCEAN SCIENCES, 1982
78°
76°
74°
85°
90°
95°
100°
105°
110°
115°

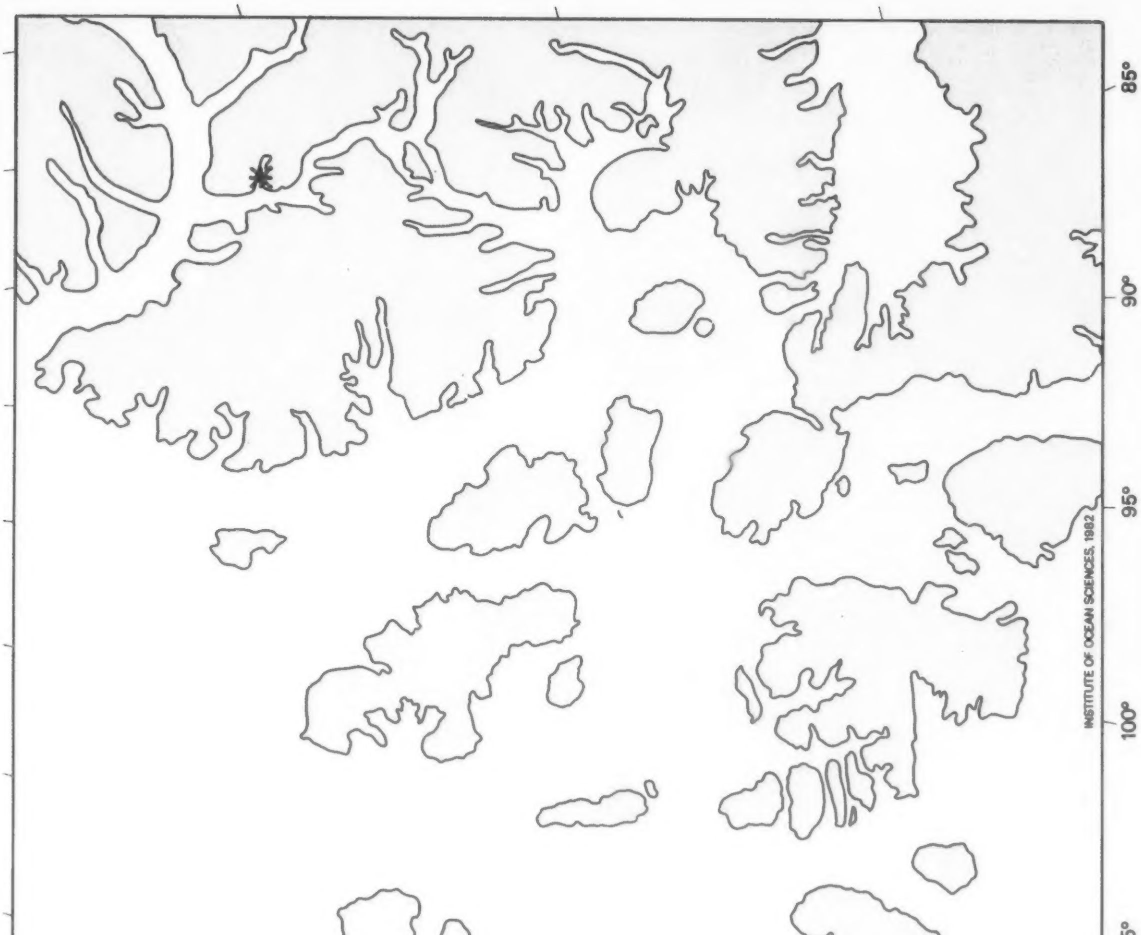

1949
WL
✱ 19490001 C.H.S. (1)
INSTITUTE OF OCEAN SCIENCES, 1982
78°
76°
74°
85°
90°
95°
100°
105°
110°
115°

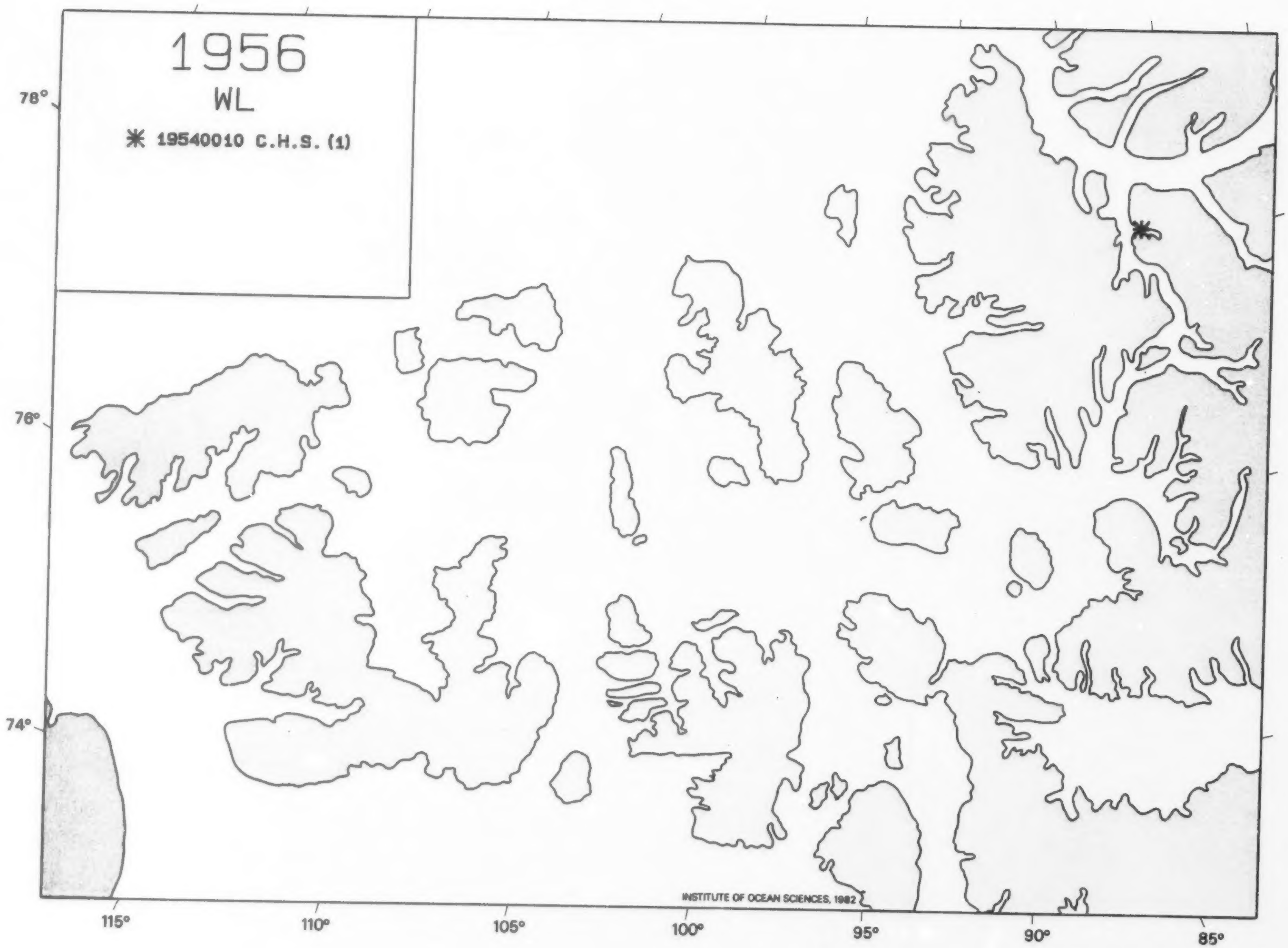

1950
WL
✱ 19490001 C.H.S. (1)
78°
76°
74°
85°
90°
95°
100°
105°
110°
115°
INSTITUTE OF OCEAN SCIENCES, 1982

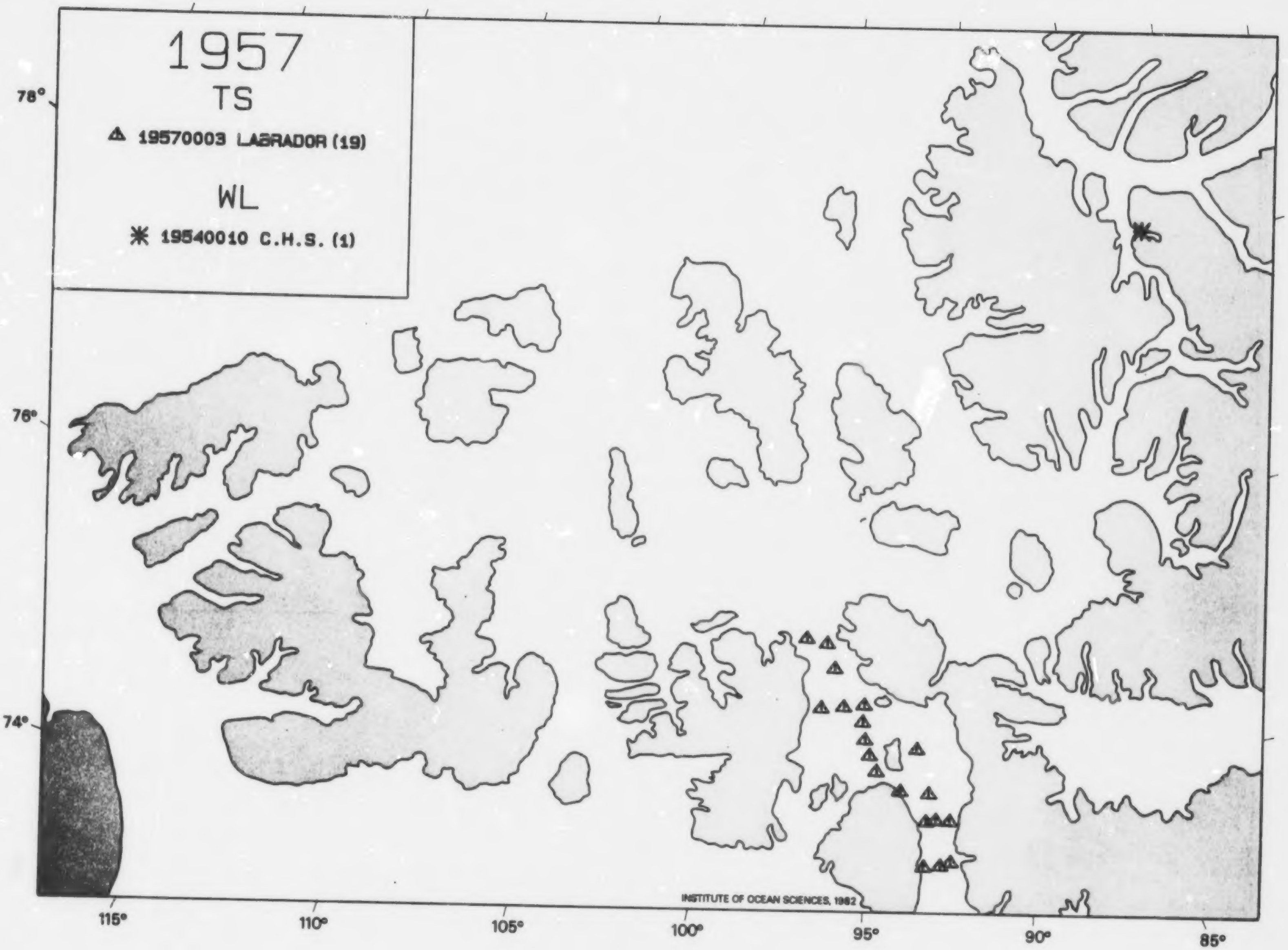

1951
WL
✳ 19490001 C.H.S. (1)
+ 19510007 C.H.S. (1)
78°
76°
74°
115°
110°
105°
100°
95°
90°
85°
INSTITUTE OF OCEAN SCIENCES, 1982

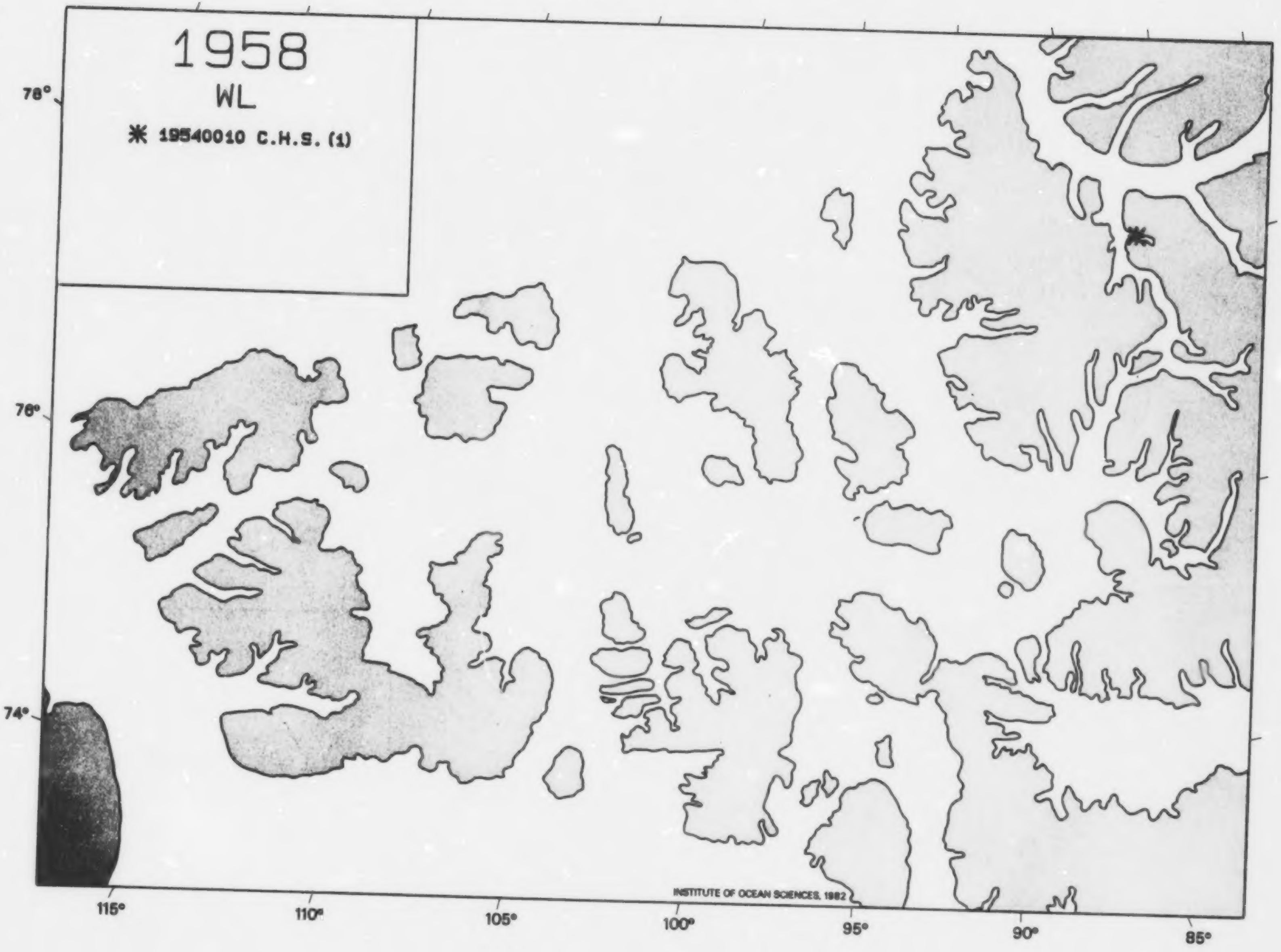

1952
TS
△ 19520003 EDISTO (7)
WL
✳ 19510007 C.H.S. (1)
+ 19520003 EDISTO (1)
78°
76°
74°
115°
110°
105°
100°
95°
90°
85°
INSTITUTE OF OCEAN SCIENCES, 1982

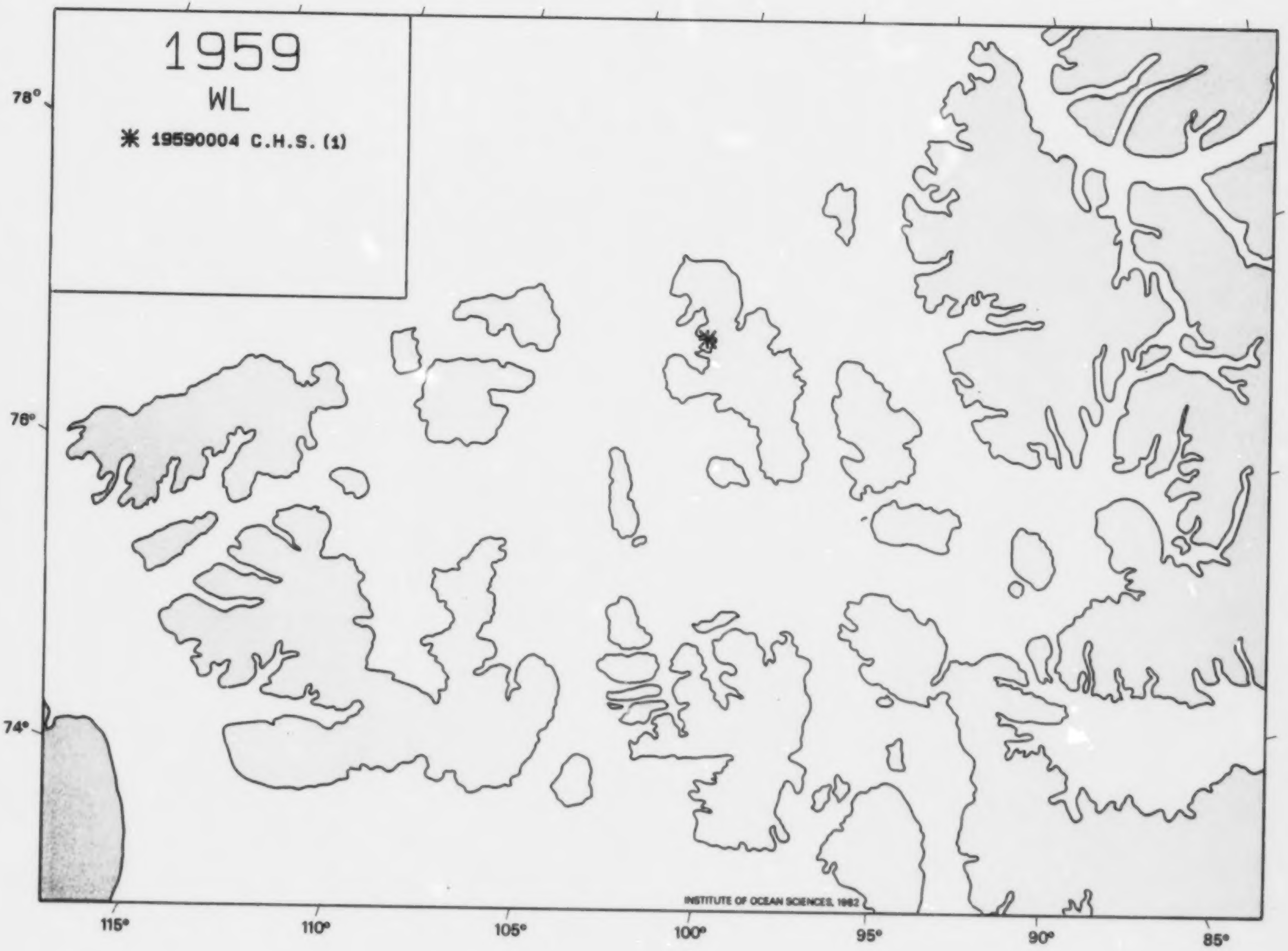

1954
TS
△ 19540001 LABRADOR (6)
WL
✳ 19540010 C.H.S. (2)
78°
76°
74°
115°
110°
105°
100°
95°
90°
85°
INSTITUTE OF OCEAN SCIENCES, 1982

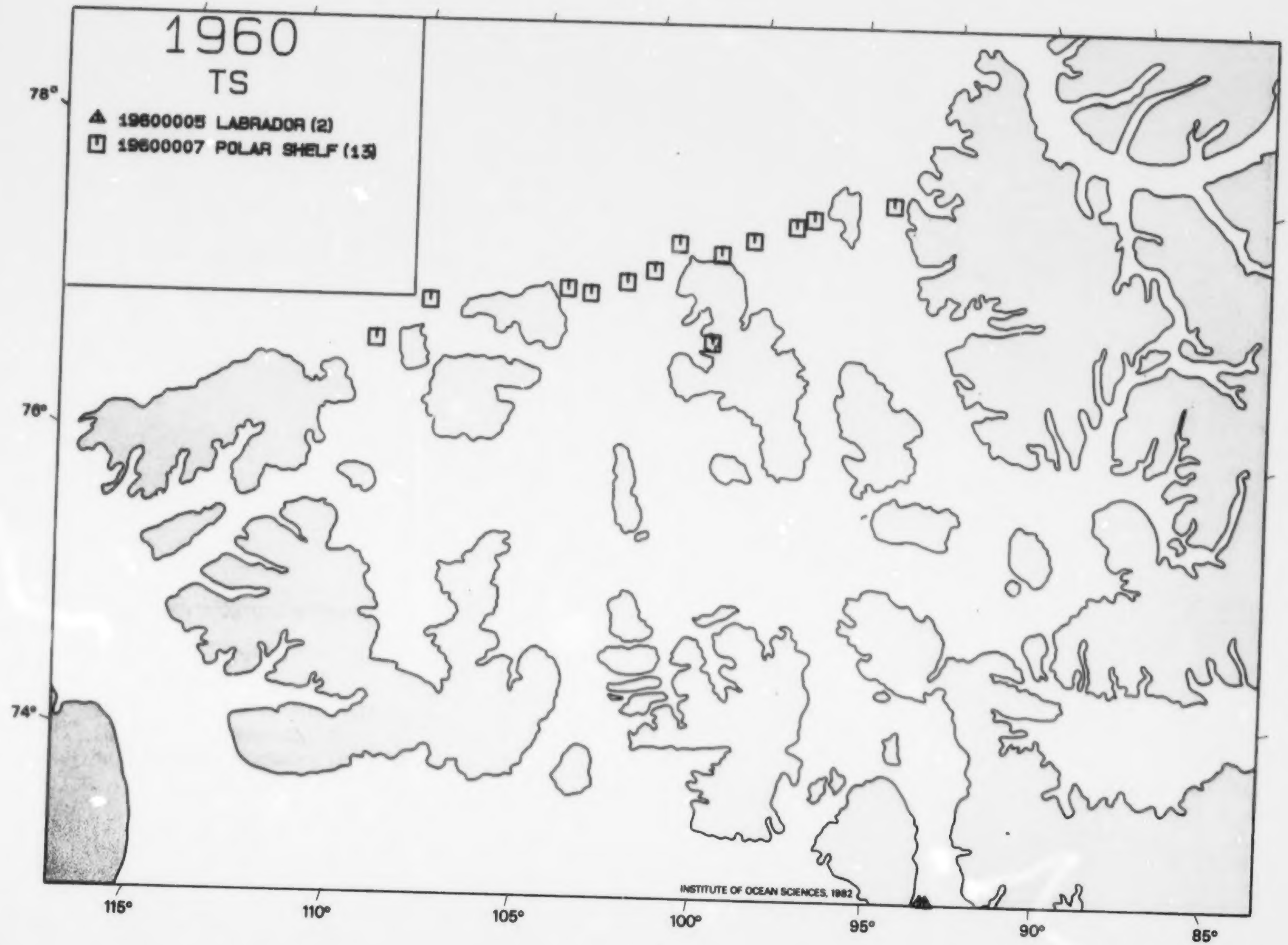

1955
WL
* 19540010 C.H.S. (1)
78°
76°
74°
85°
90°
95°
100°
105°
110°
115°
INSTITUTE OF OCEAN SCIENCES, 1982


1956
WL
✳ 19540010 C.H.S. (1)
78°
76°
74°
115°
110°
105°
100°
95°
90°
85°
INSTITUTE OF OCEAN SCIENCES, 1982


1957
TS
19570003 LABRADOR (19)
WL
19540010 C.H.S. (1)
78°
76°
74°
115°
110°
105°
100°
95°
90°
85°
INSTITUTE OF OCEAN SCIENCES, 1982


1958
WL
✱ 19540010 C.H.S. (1)
78°
76°
74°
115°
110°
105°
100°
95°
90°
85°
INSTITUTE OF OCEAN SCIENCES, 1982


1959
WL
✳ 19590004 C.H.S. (1)
78°
76°
74°
115°
110°
105°
100°
95°
90°
85°
INSTITUTE OF OCEAN SCIENCES, 1982


1960
TS
▲ 19600005 LABRADOR (2)
☐ 19600007 POLAR SHELF (13)
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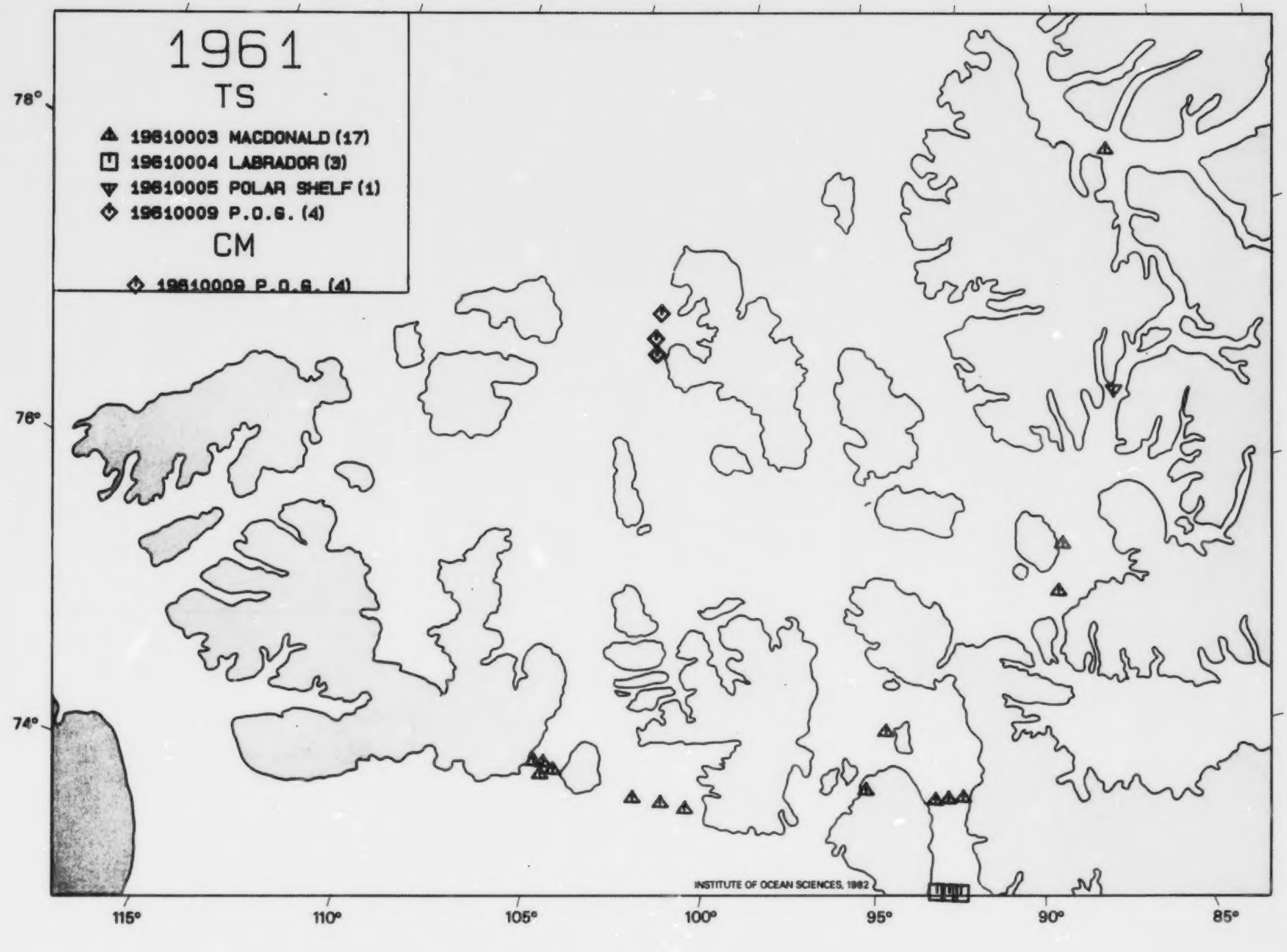
INSTITUTE OF OCEAN SCIENCES, 1982


1961
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▲ 19610003 MACDONALD (17)
☐ 19610004 LABRADOR (3)
▼ 19610005 POLAR SHELF (1)
◇ 19610009 P.O.S. (4)
CM
◇ 19610009 P.O.S. (4)
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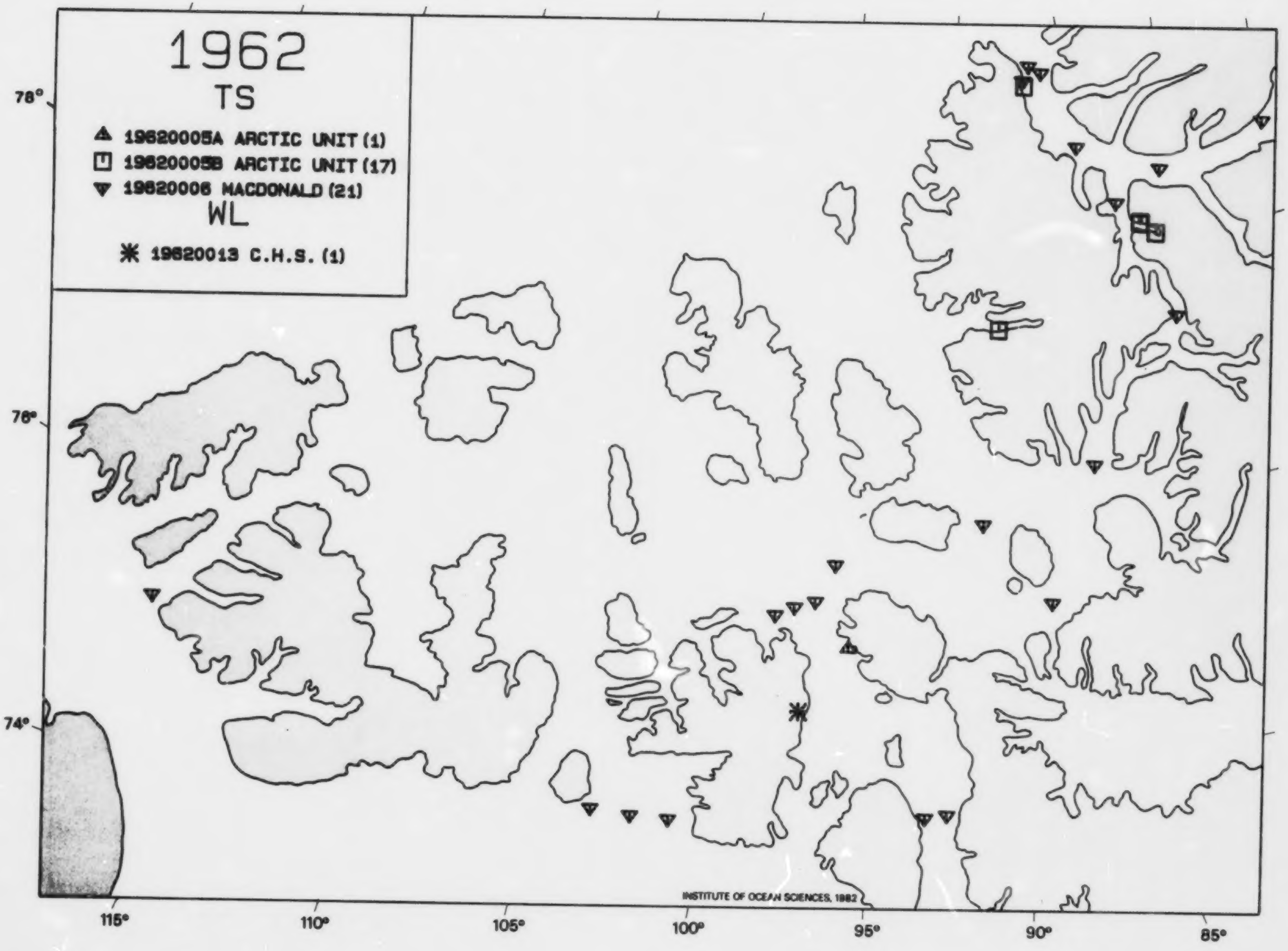
INSTITUTE OF OCEAN SCIENCES, 1982



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☐ 19620005B ARCTIC UNIT (17)
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WL
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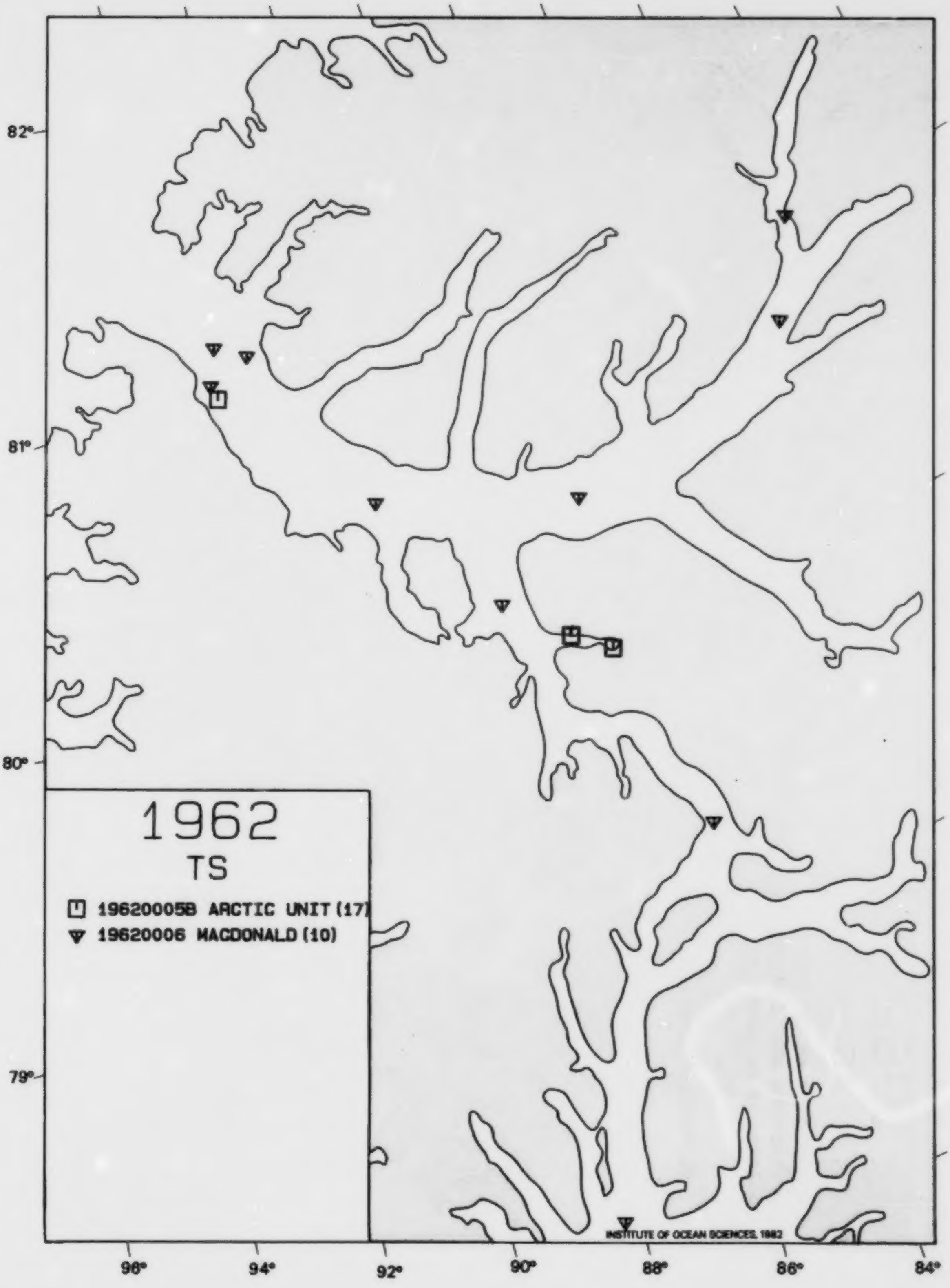
INSTITUTE OF OCEAN SCIENCES, 1982


82°
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1962
TS
☐ 19620005B ARCTIC UNIT (17)
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INSTITUTE OF OCEAN SCIENCES, 1982
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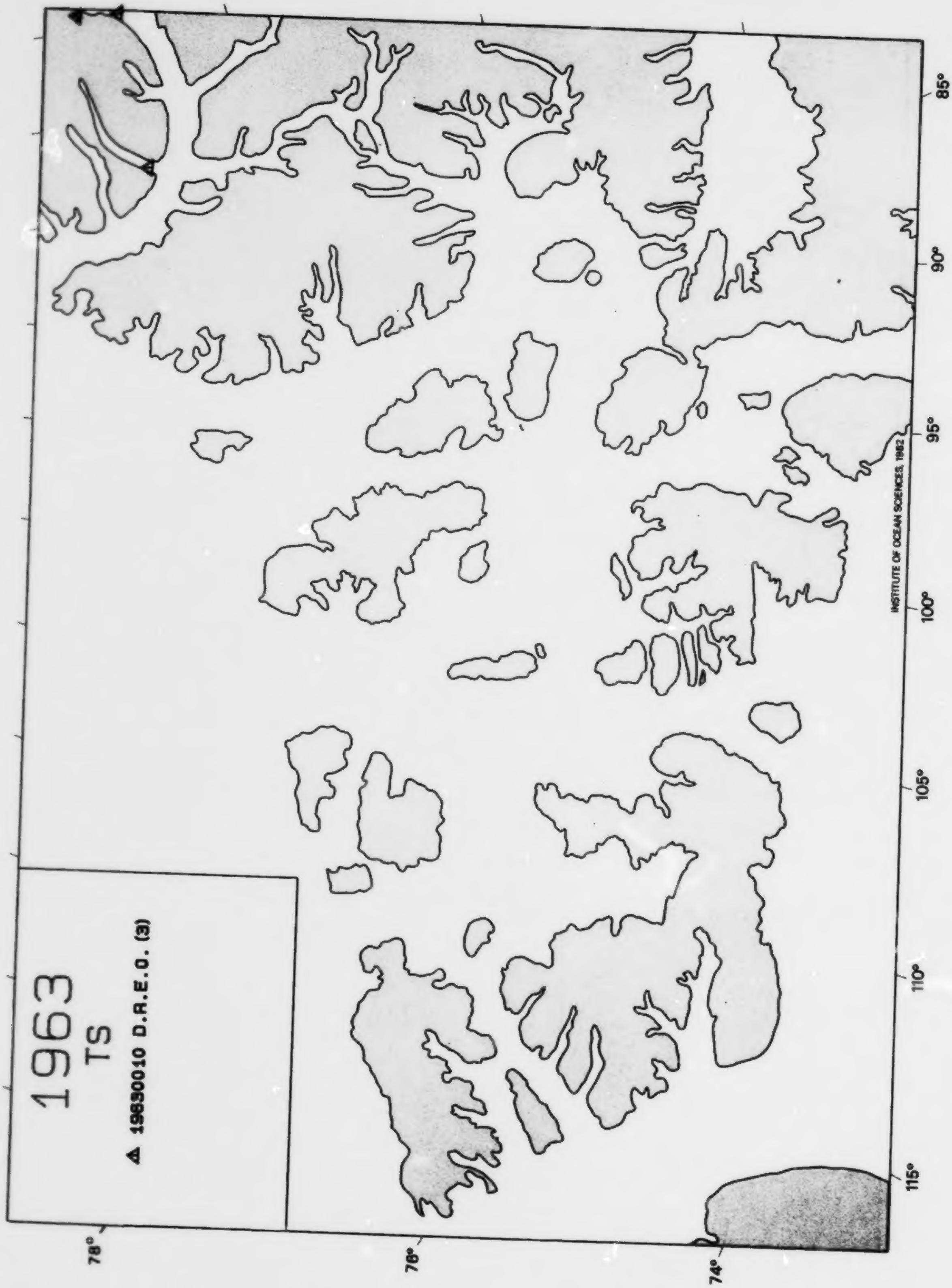
1963
TS
▲ 19630010 D.R.E.O. (3)
INSTITUTE OF OCEAN SCIENCES, 1982
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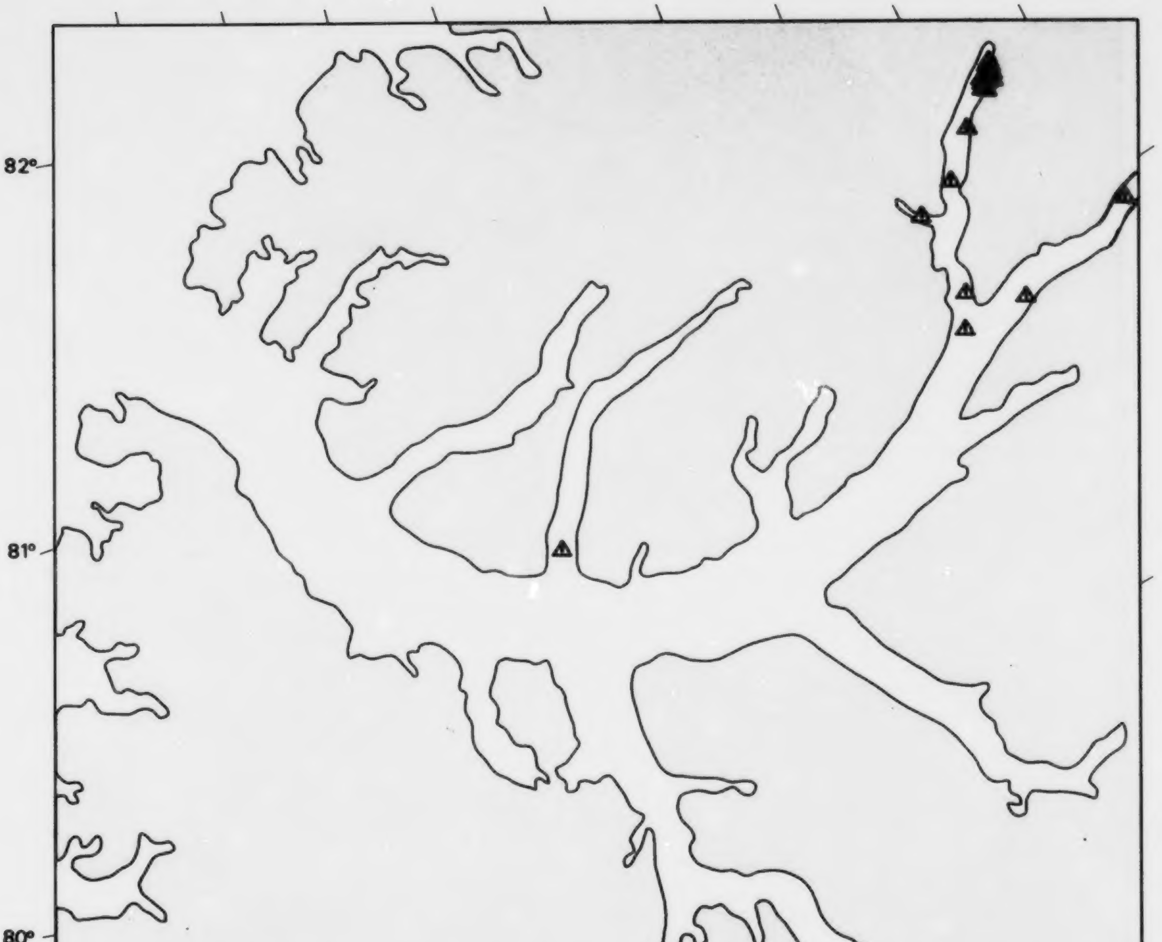
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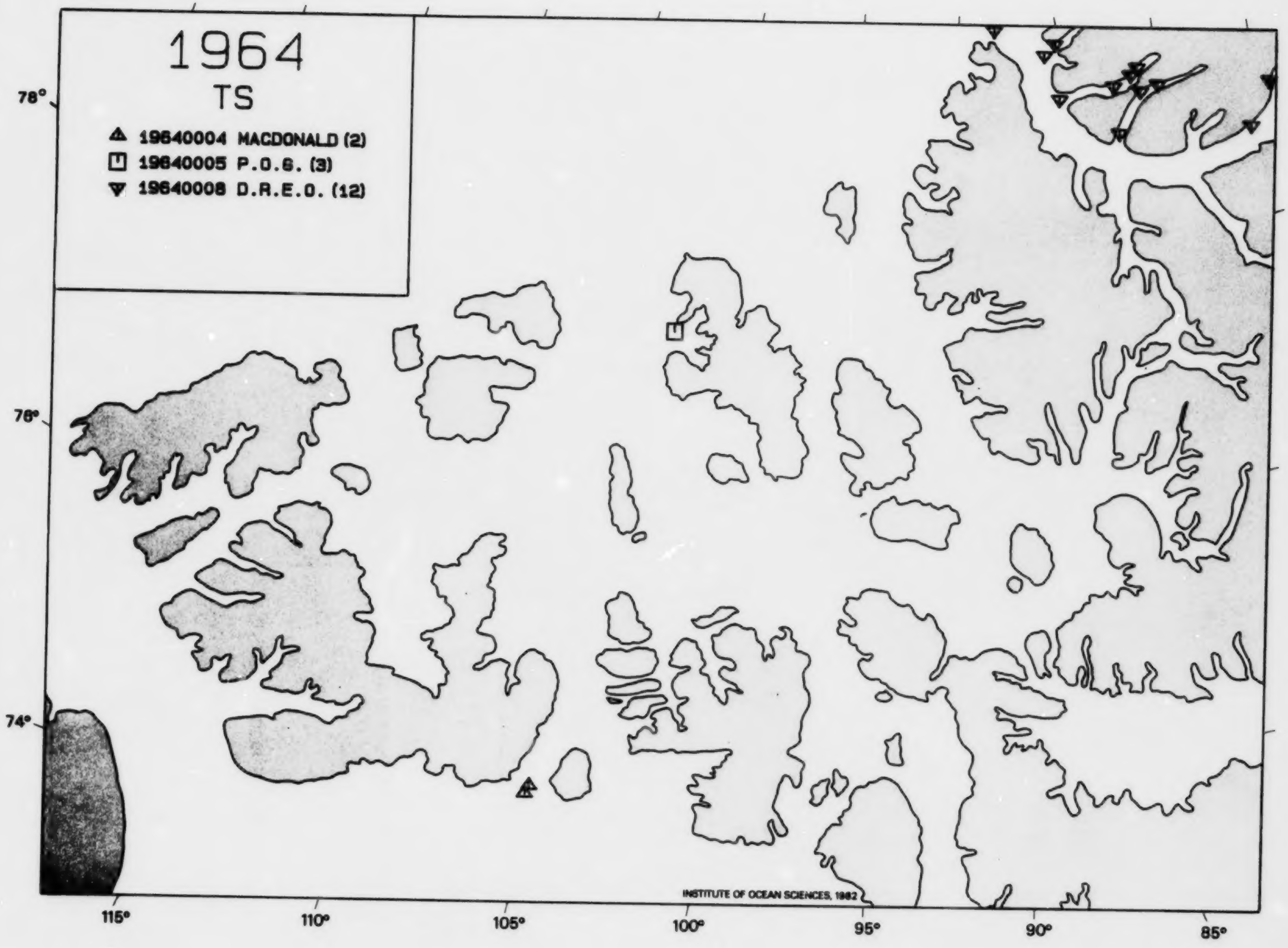
INSTITUTE OF OCEAN SCIENCES, 1982


1964
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□ 19640005 P.O.G. (3)
▽ 19640008 D.R.E.O. (12)
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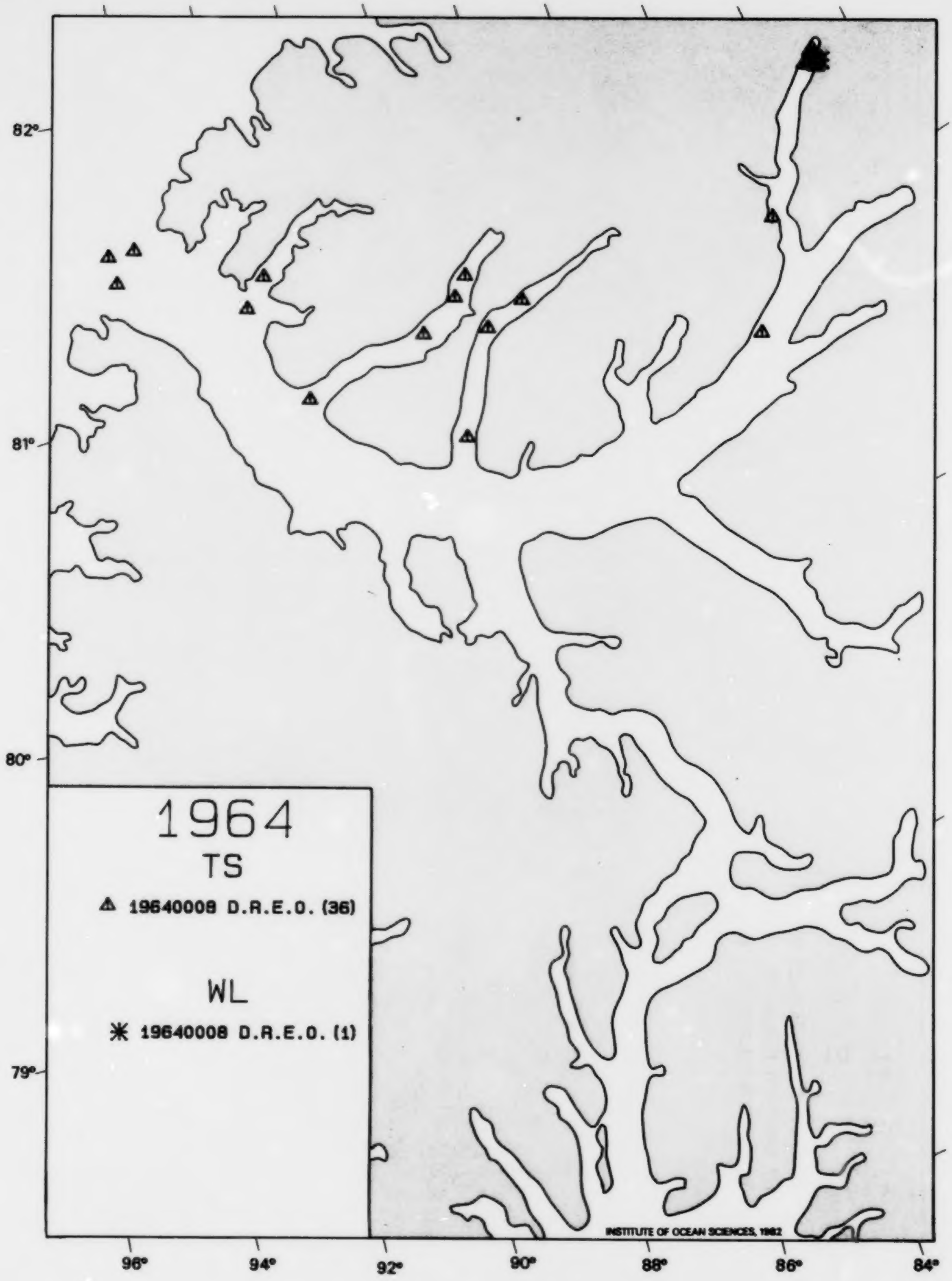
INSTITUTE OF OCEAN SCIENCES, 1982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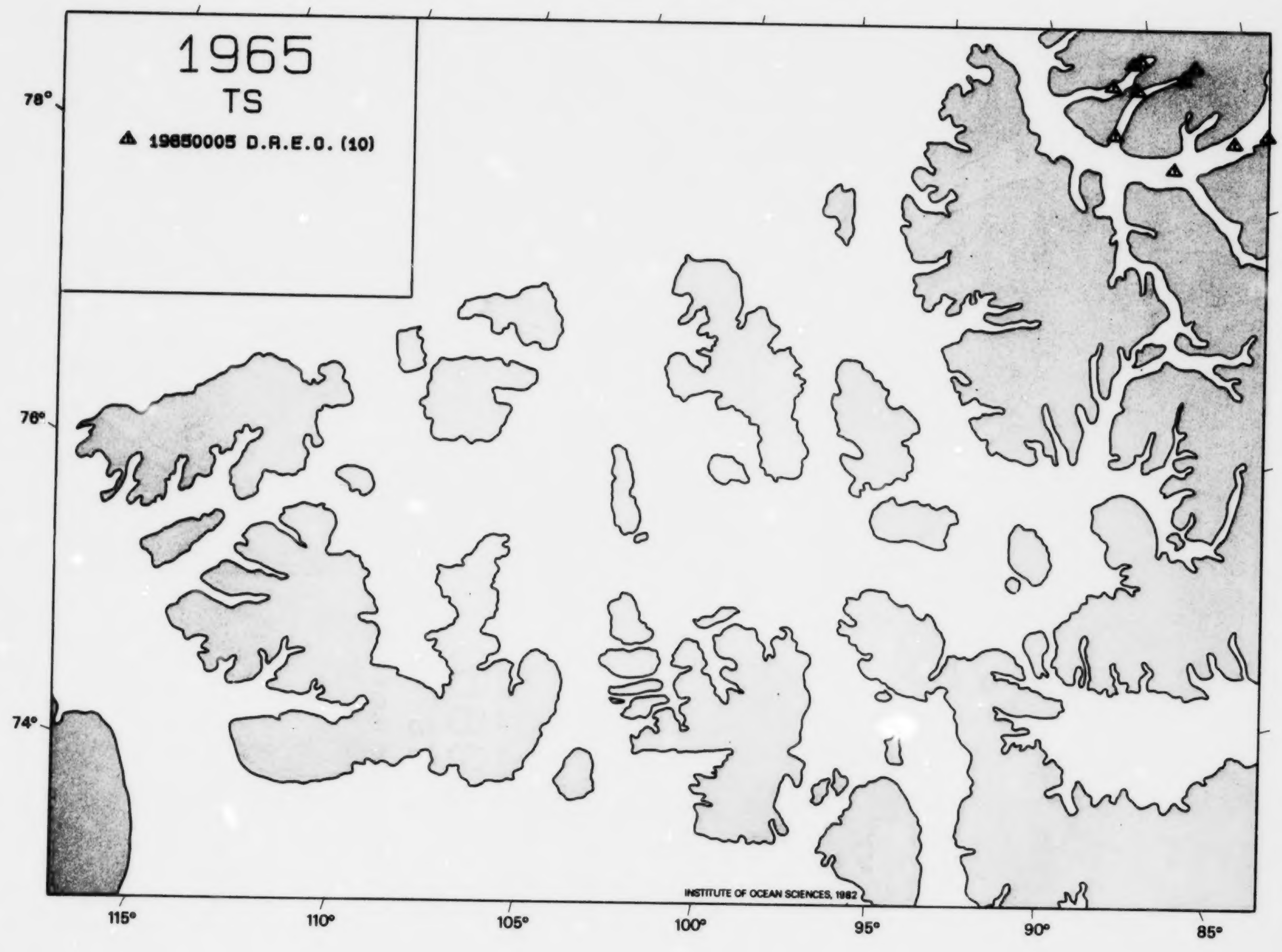
INSTITUTE OF OCEAN SCIENCES, 1982


1965
TS
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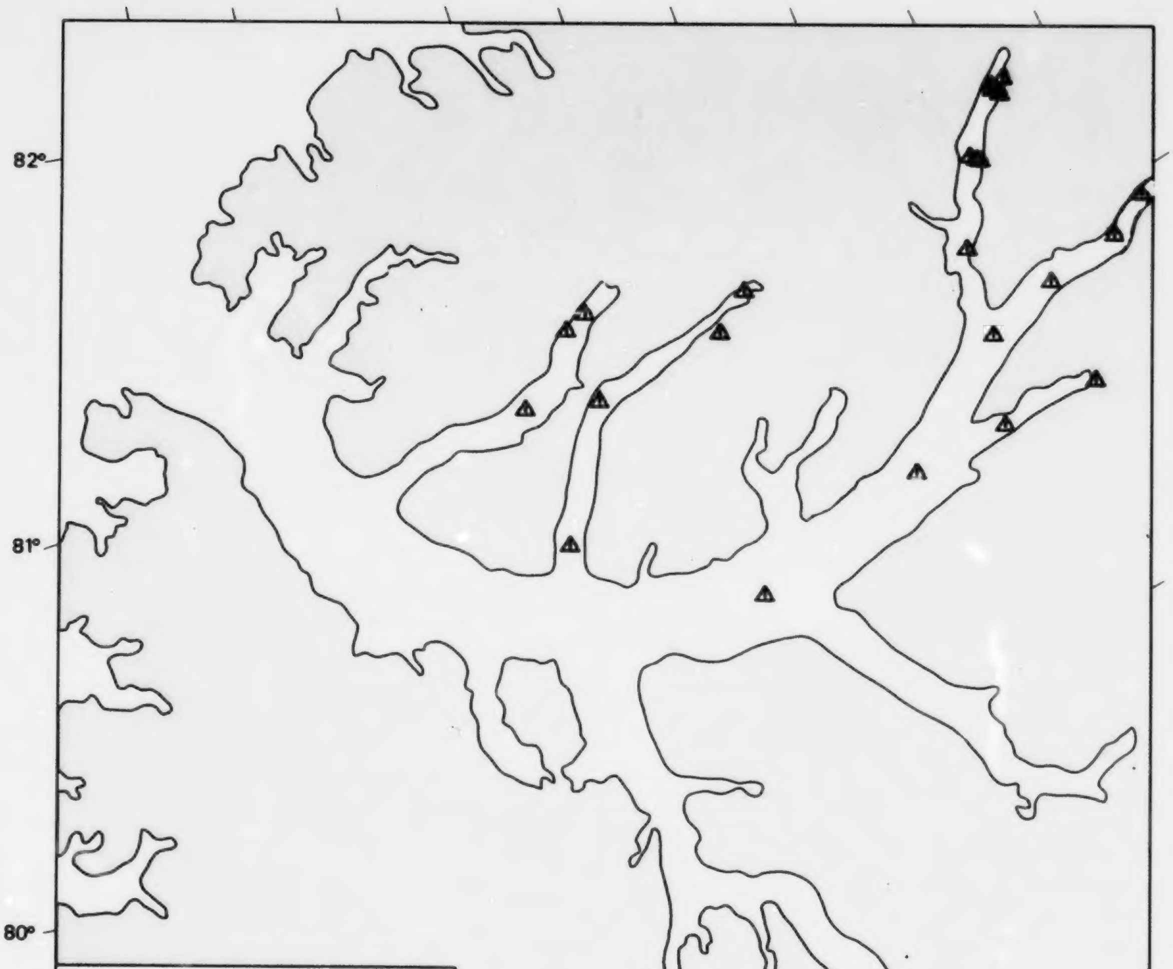
INSTITUTE OF OCEAN SCIENCES, 1982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1965
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INSTITUTE OF OCEAN SCIENCES, 1982
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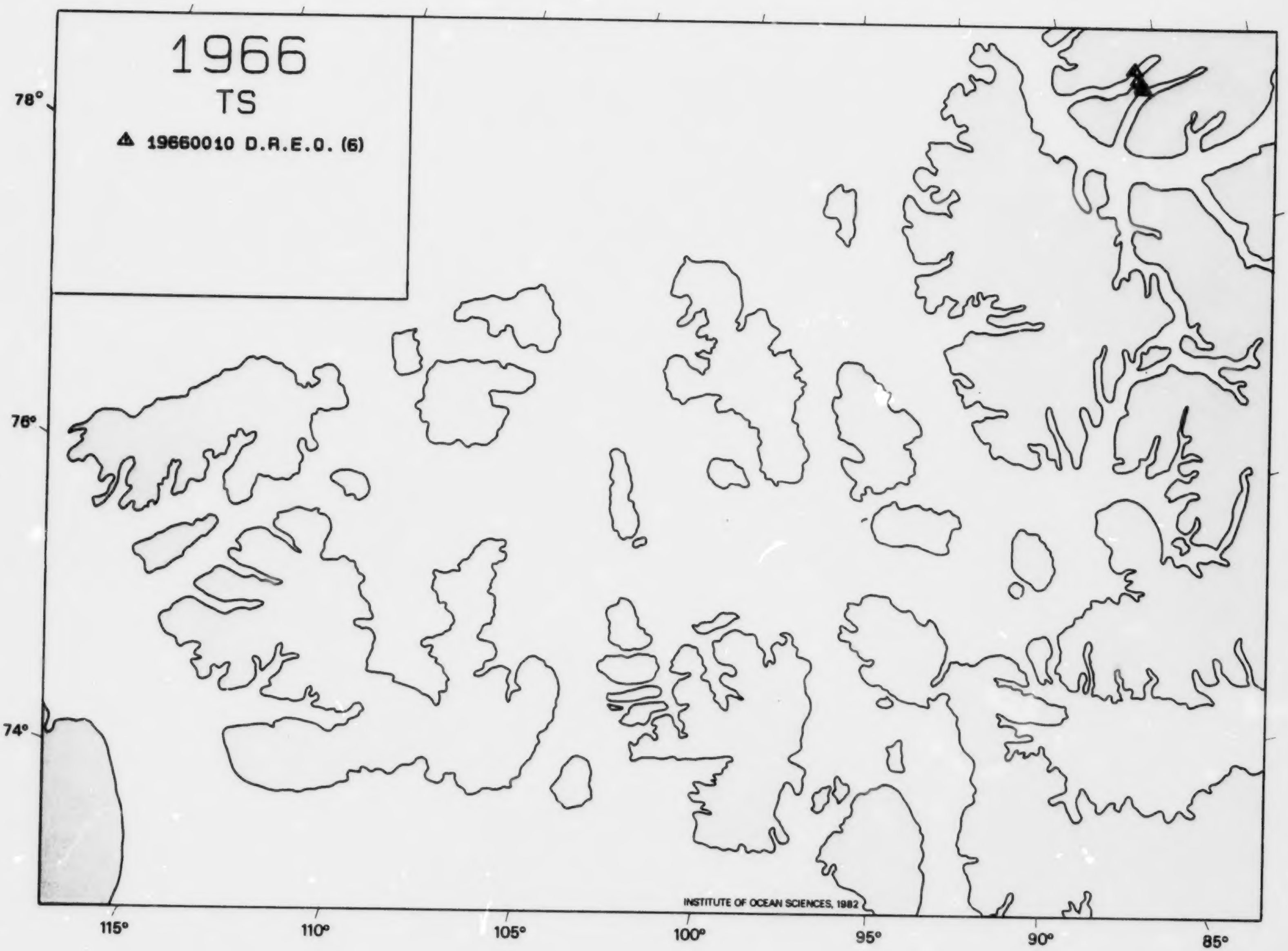
1966
TS
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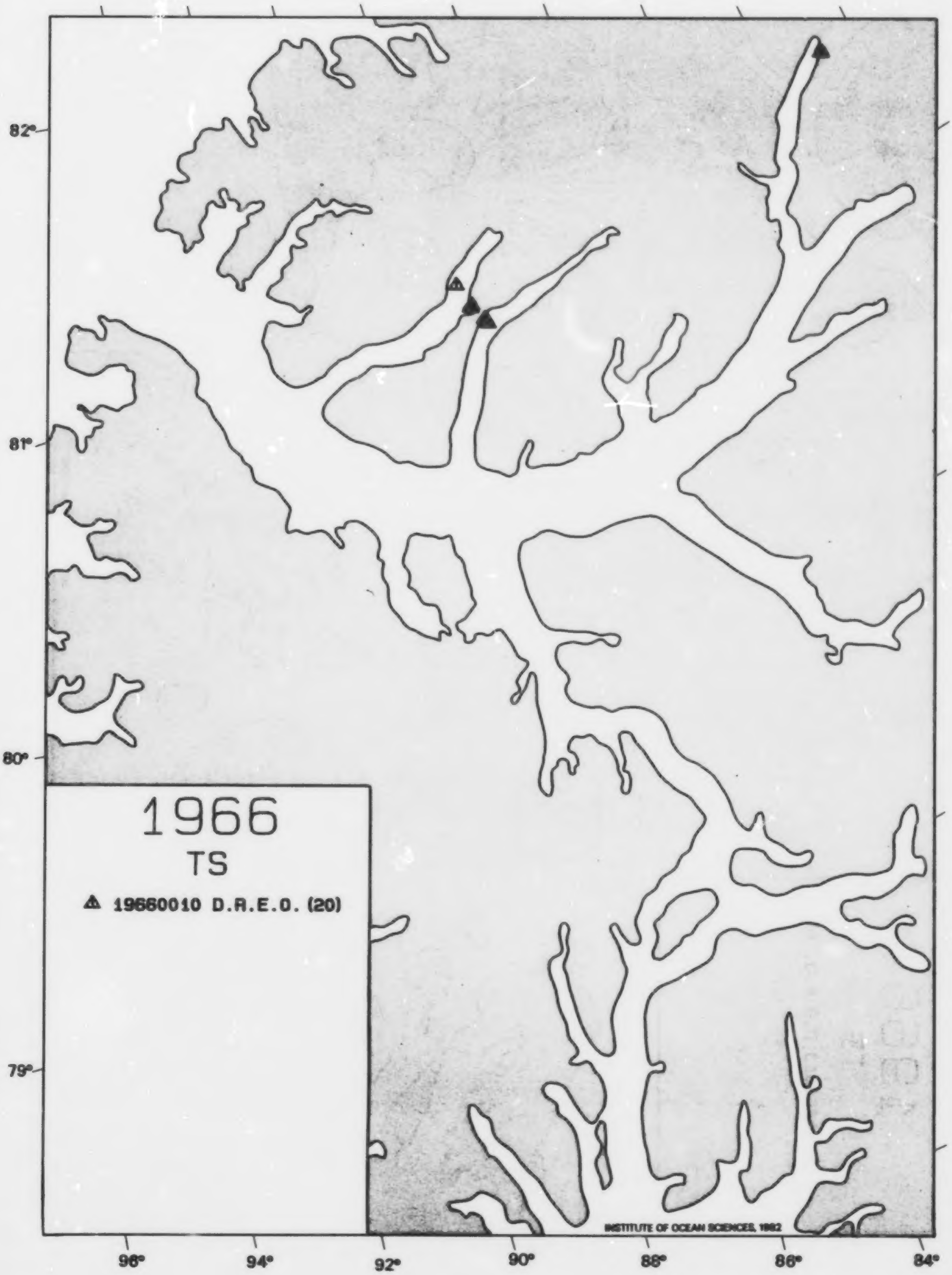
INSTITUTE OF OCEAN SCIENCES, 1982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1966
TS
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INSTITUTE OF OCEAN SCIENCES, 1982
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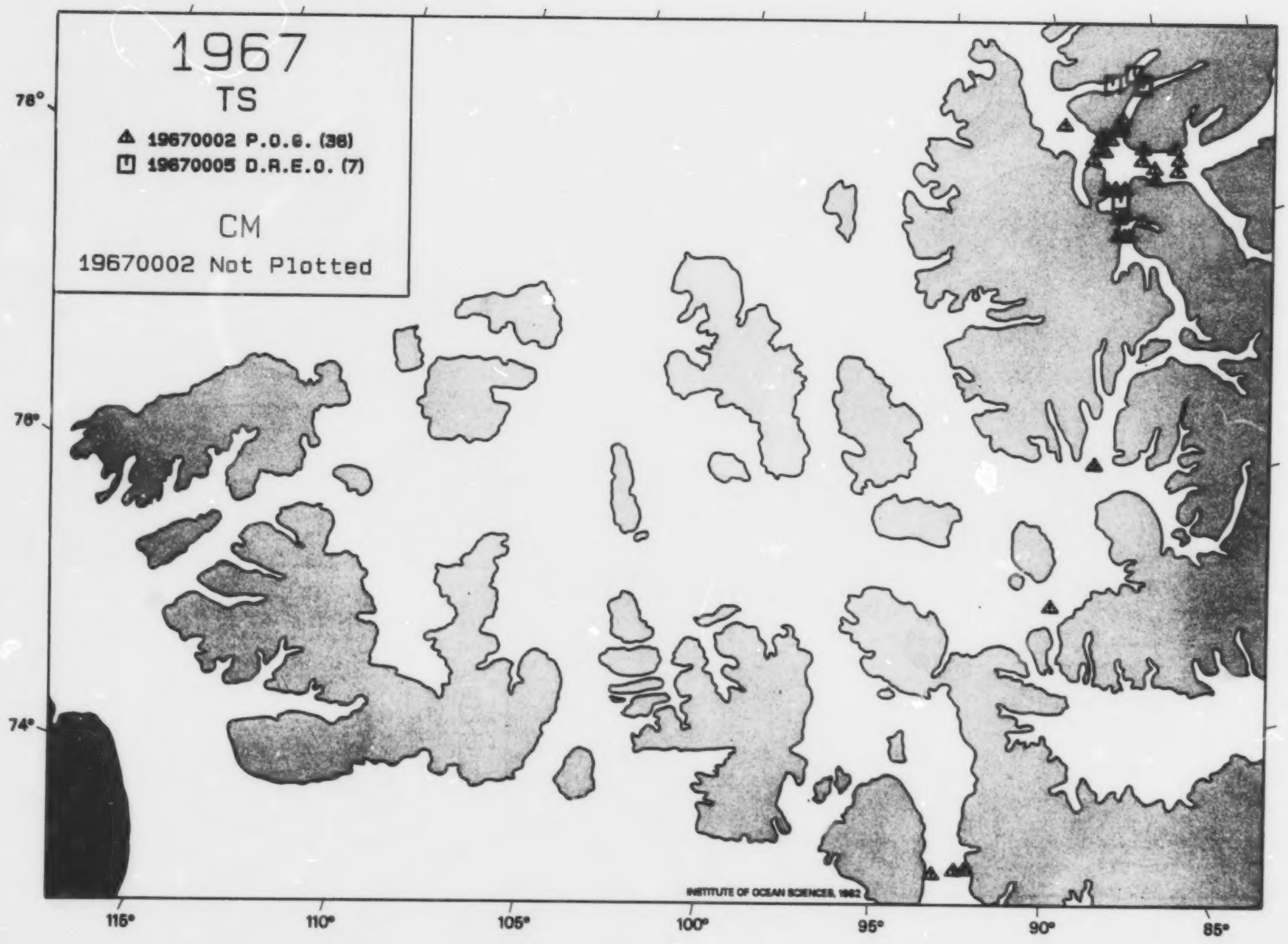
1967
TS
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☐ 19670005 D.R.E.O. (7)
CM
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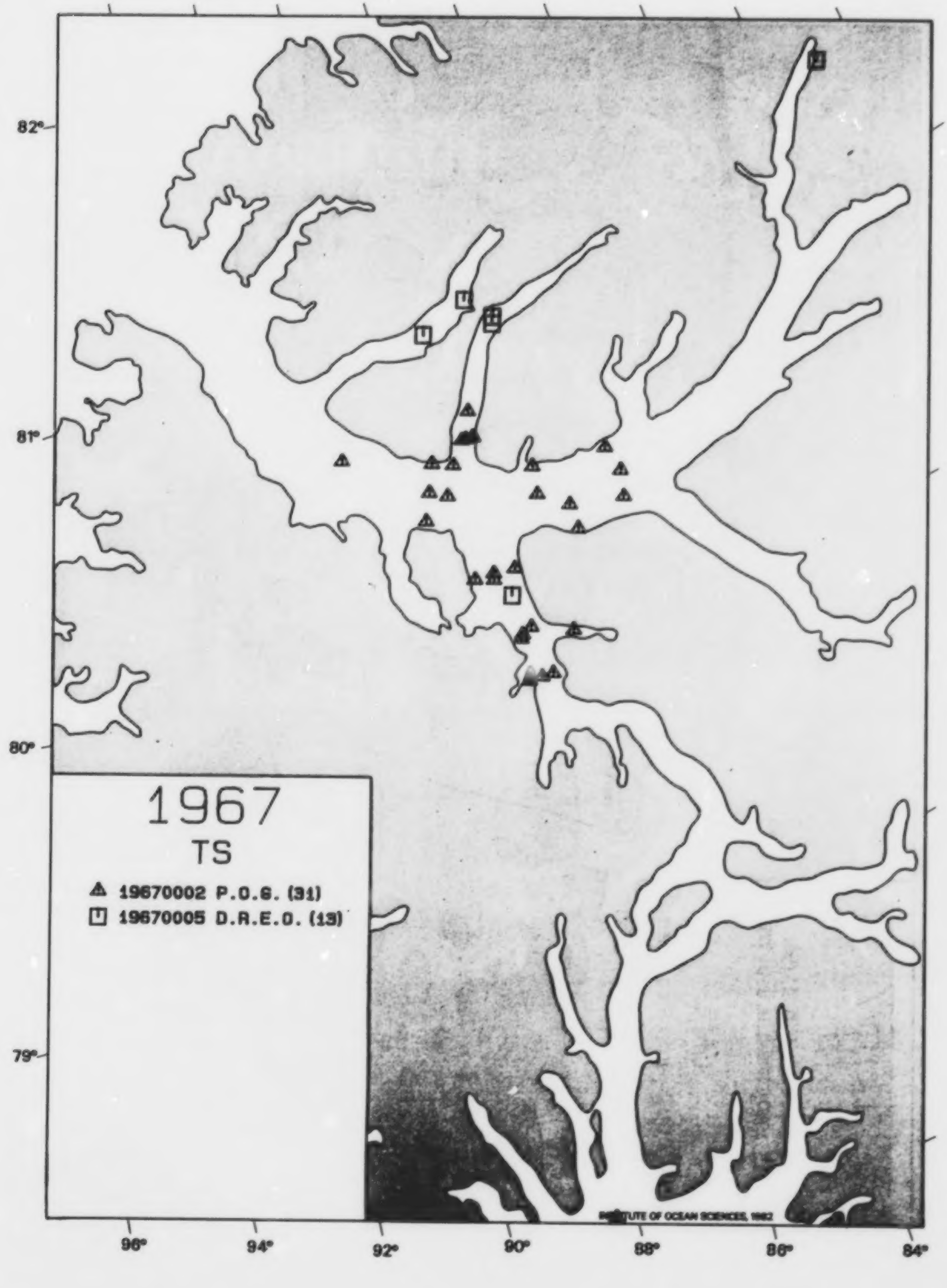
INSTITUTE OF OCEAN SCIENCES, 1982


1967
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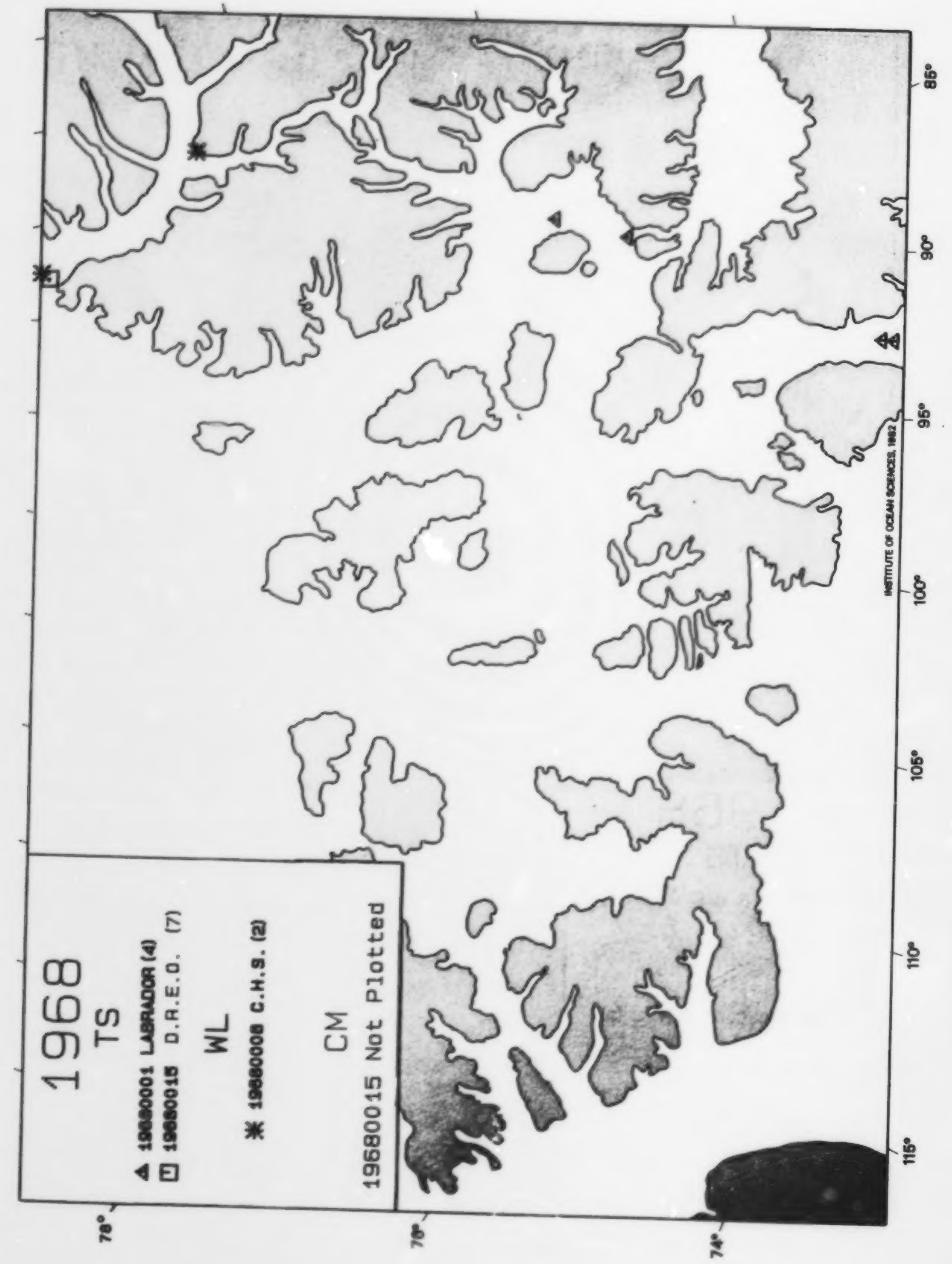
INSTITUTE OF OCEAN SCIENCES, 1982


1968
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WL
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CM
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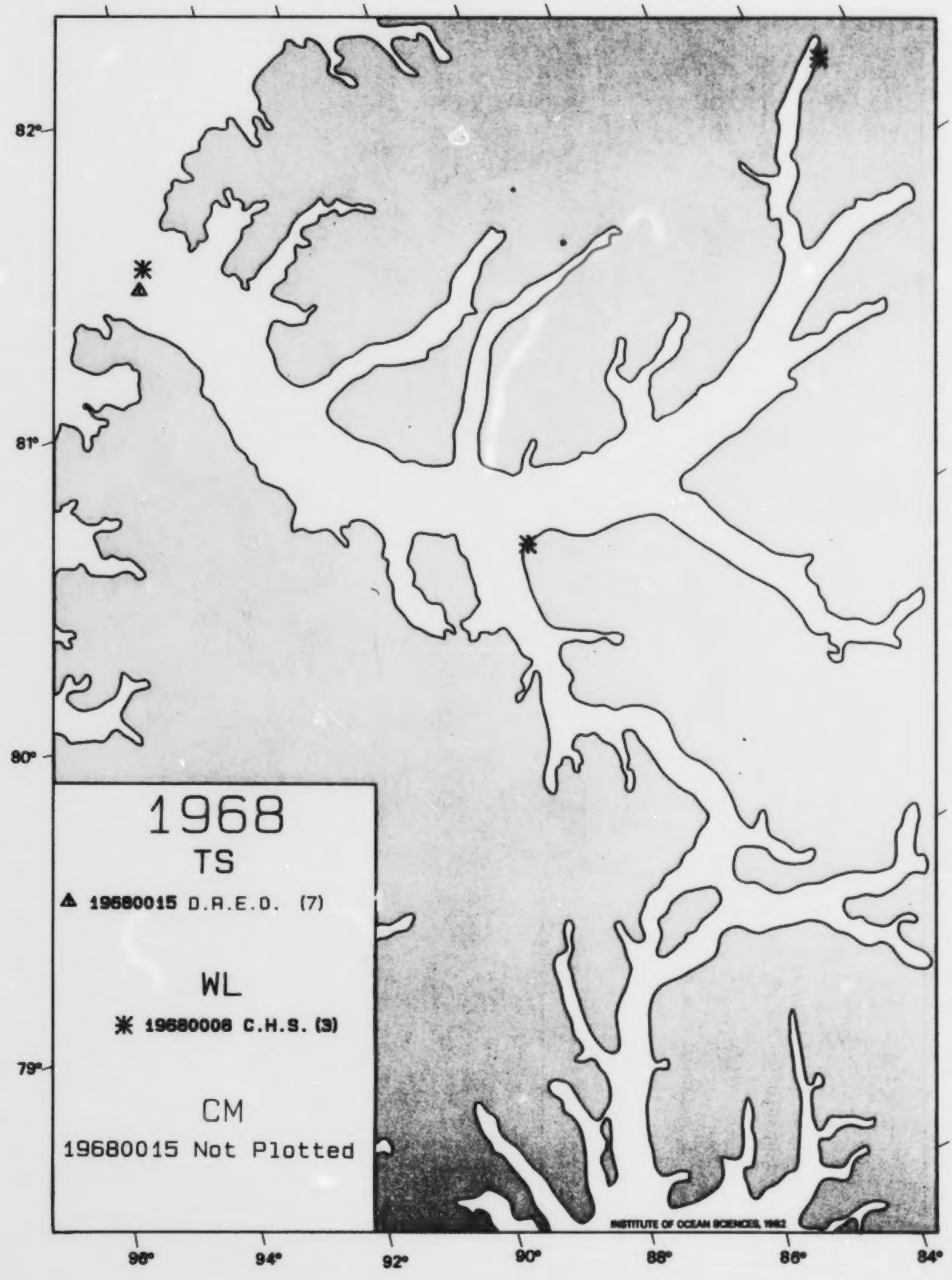
INSTITUTE OF OCEAN SCIENCES, 1982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1968
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CM
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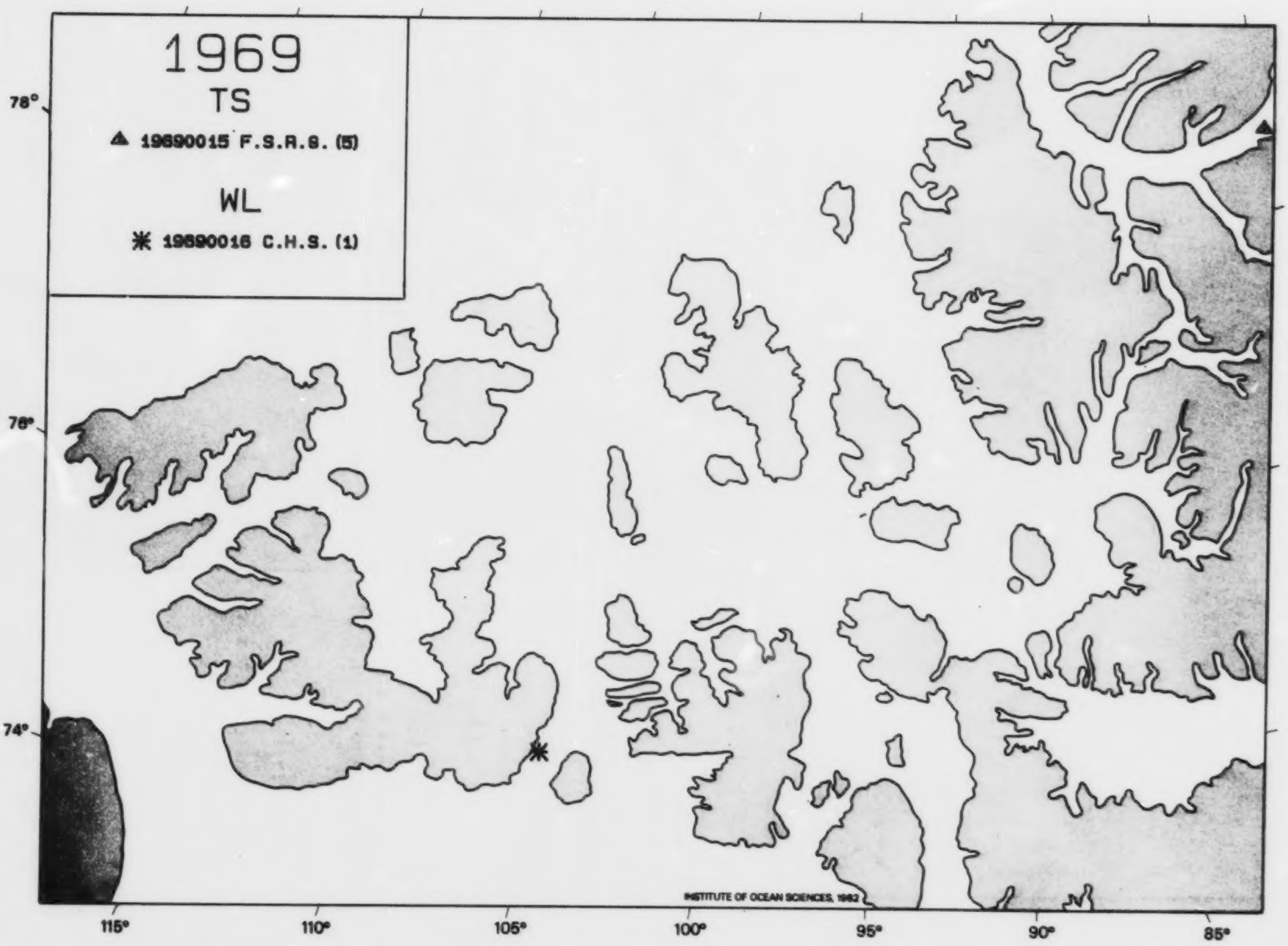
INSTITUTE OF OCEAN SCIENCES, 1982


1969
TS
▲ 19690015 F.S.R.S. (5)
WL
✳ 19690016 C.H.S. (1)
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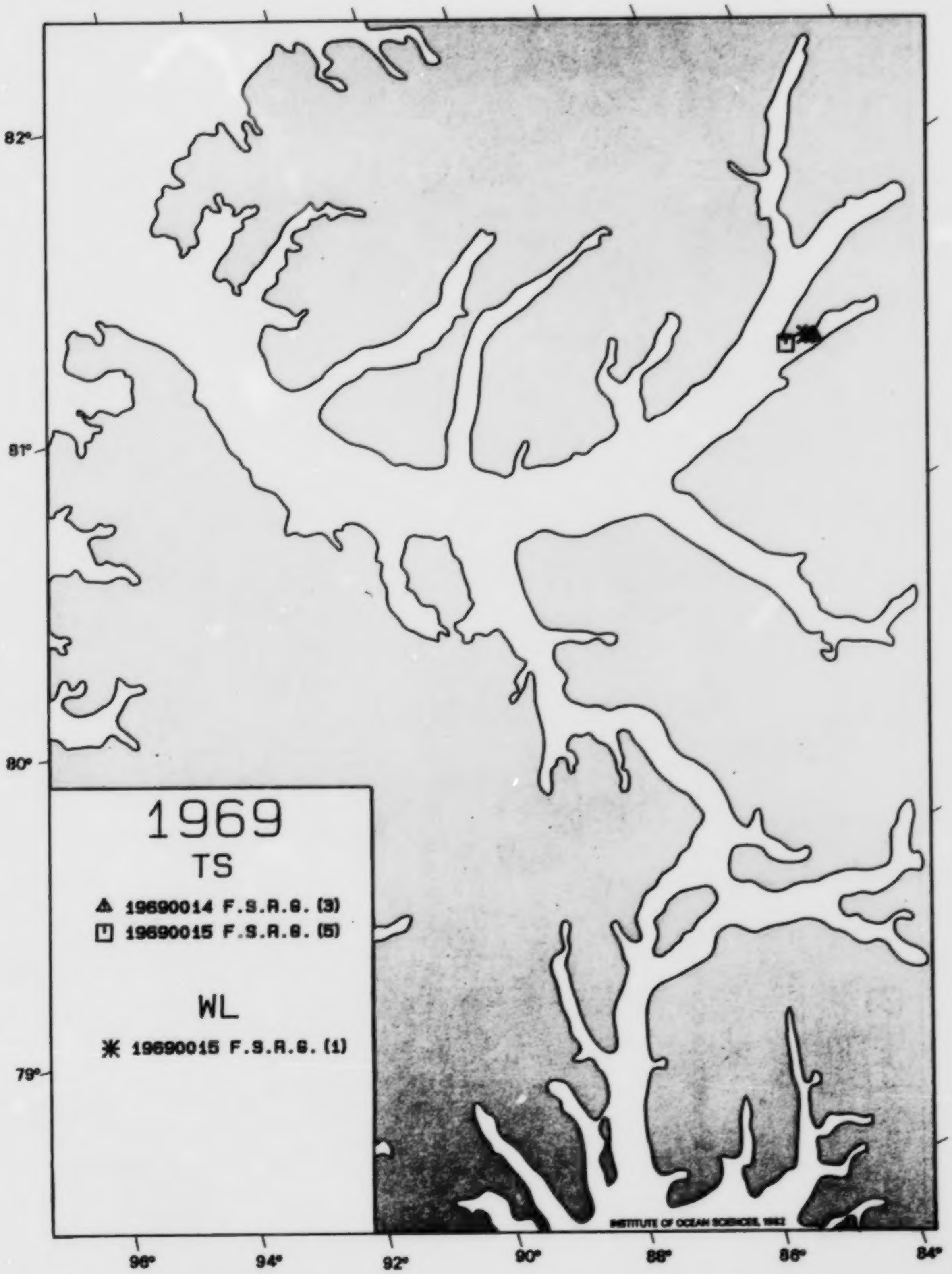
INSTITUTE OF OCEAN SCIENCES, 1982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1969
TS
▲ 19690014 F.S.R.G. (3)
☐ 19690015 F.S.R.G. (5)
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✱ 19690015 F.S.R.G. (1)
INSTITUTE OF OCEAN SCIENCES, 1982
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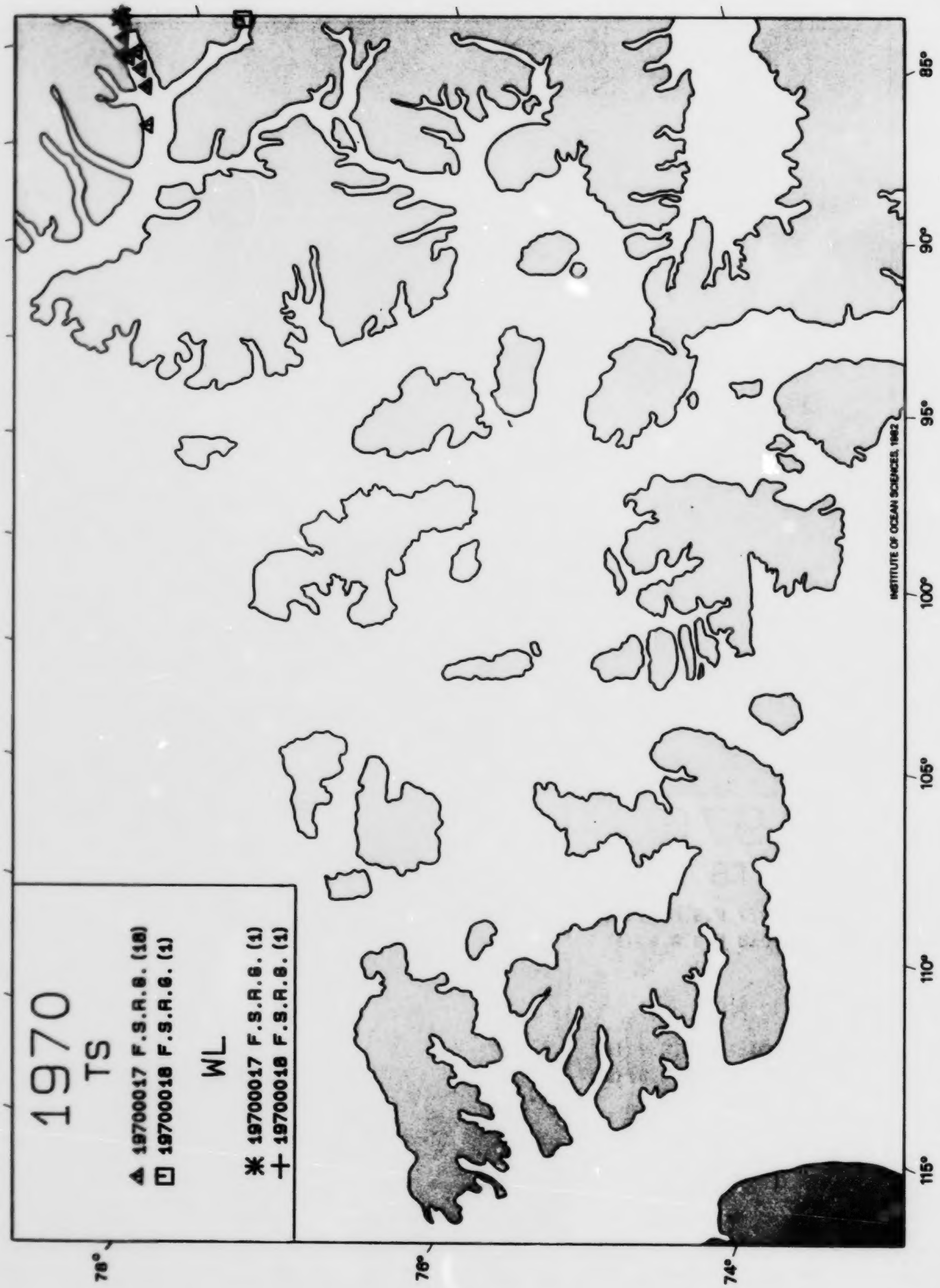
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☐ 19700018 F.S.R.G. (1)
WL
✳ 19700017 F.S.R.G. (1)
+ 19700018 F.S.R.G. (1)
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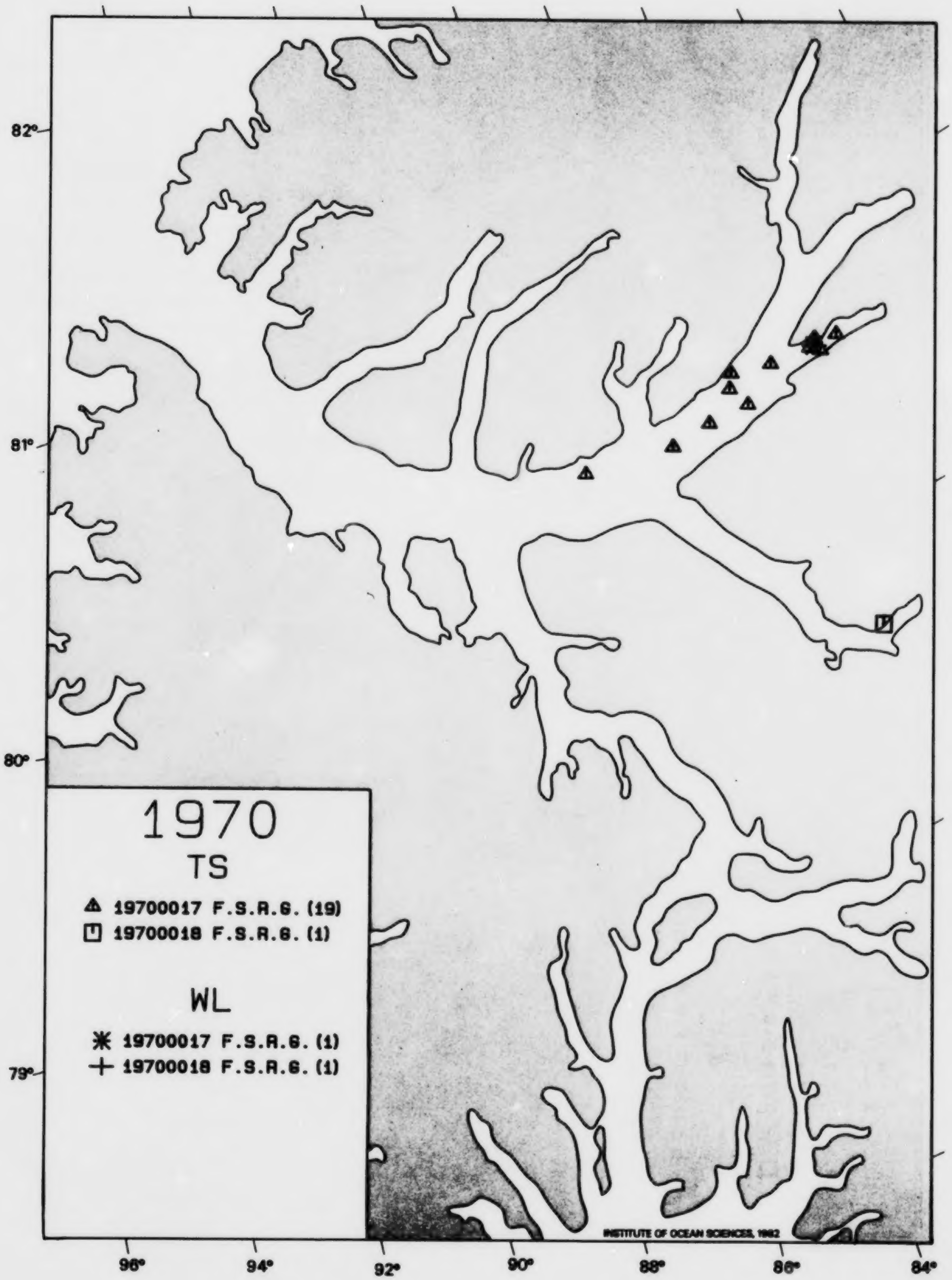
INSTITUTE OF OCEAN SCIENCES, 1982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1970
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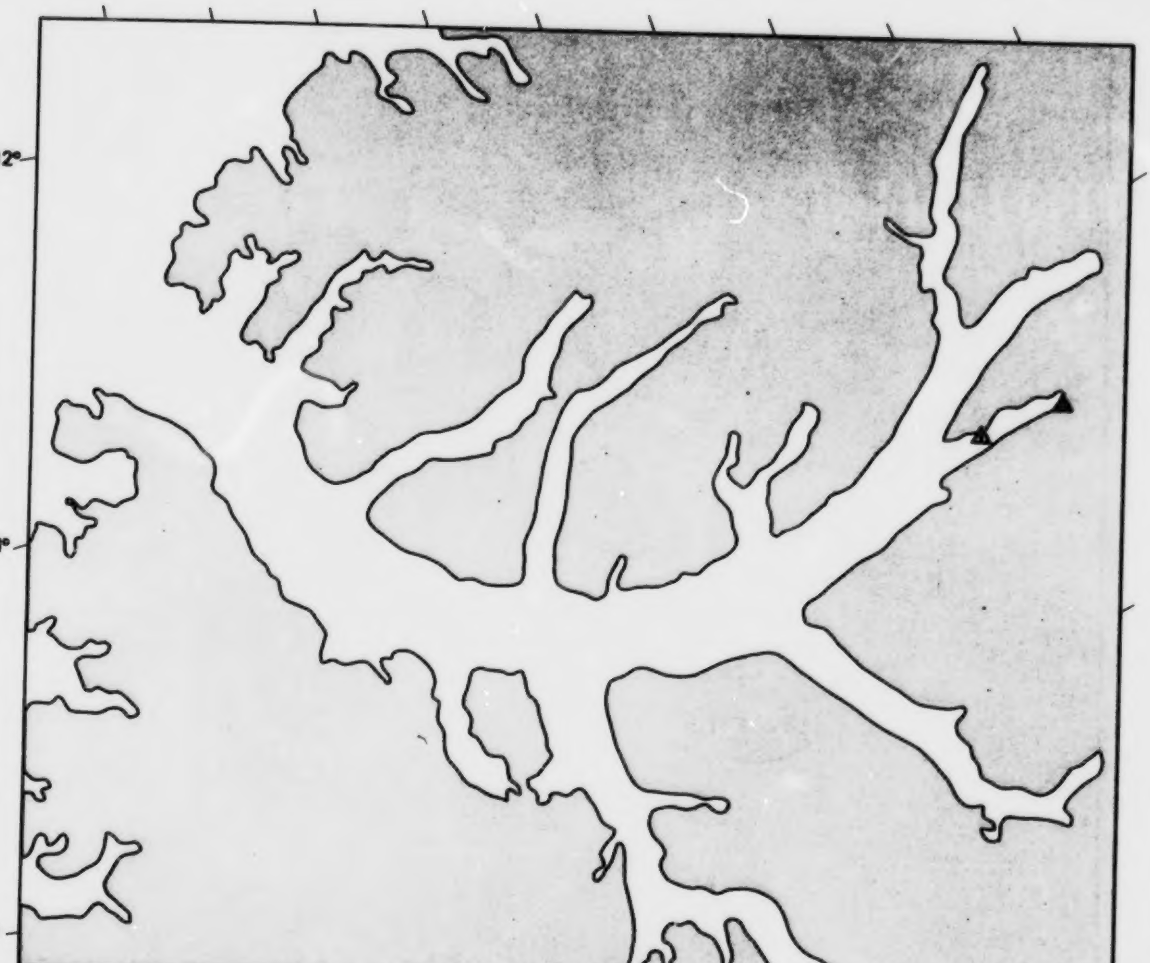
INSTITUTE OF OCEAN SCIENCES, 1982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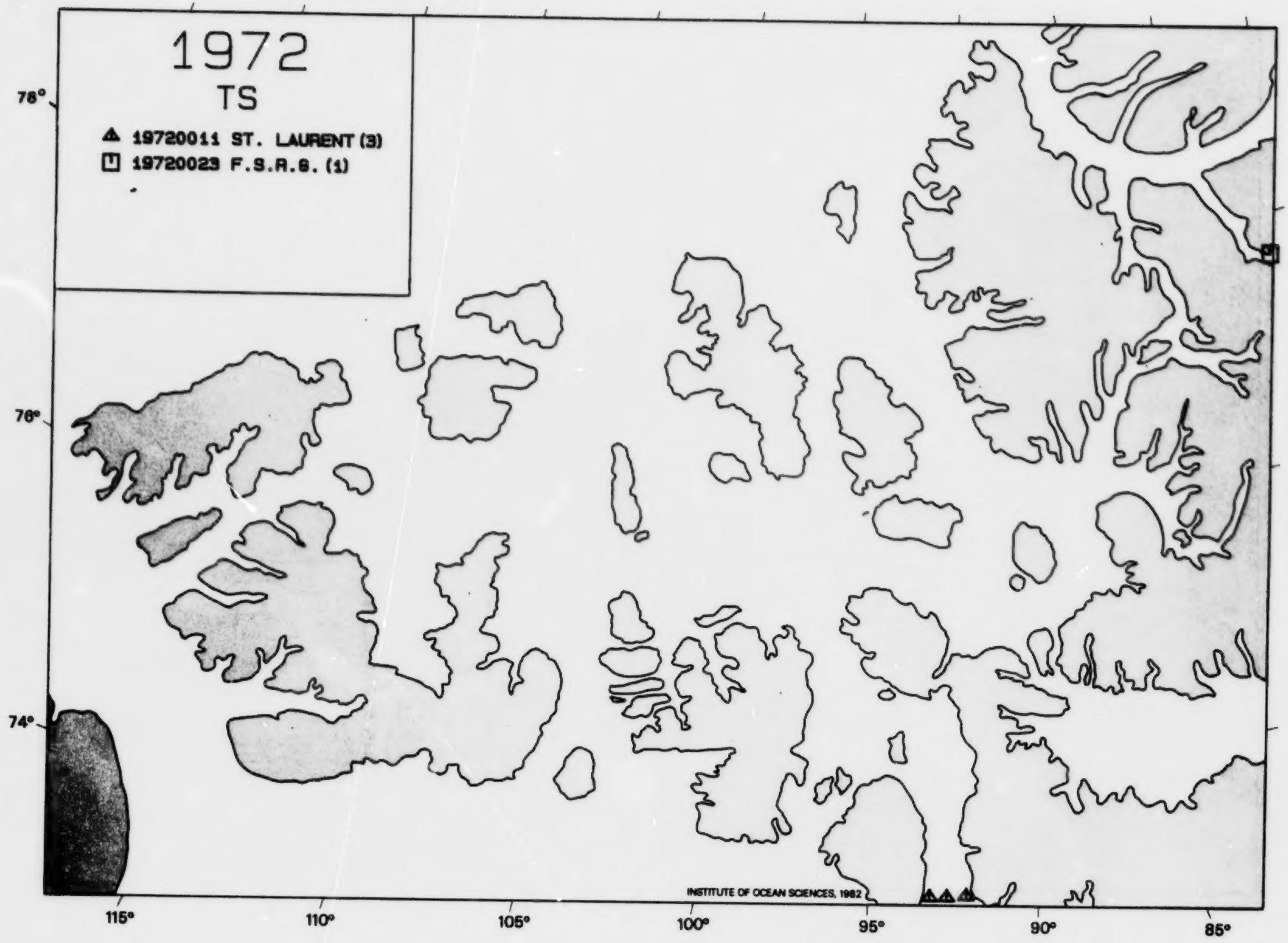
INSTITUTE OF OCEAN SCIENCES, 1982


1972
TS
▲ 19720011 ST. LAURENT (3)
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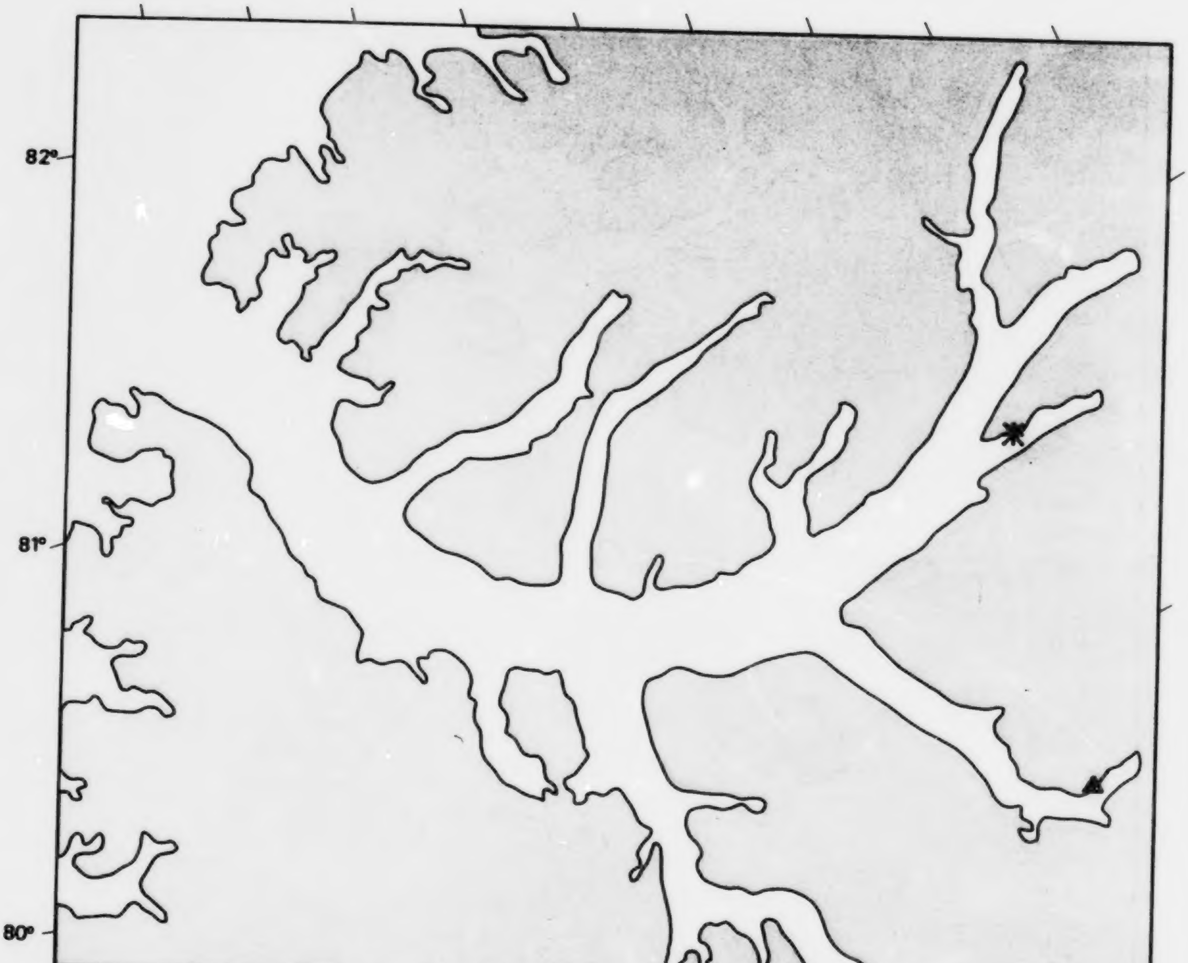
INSTITUTE OF OCEAN SCIENCES, 1982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1972
TS
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WL
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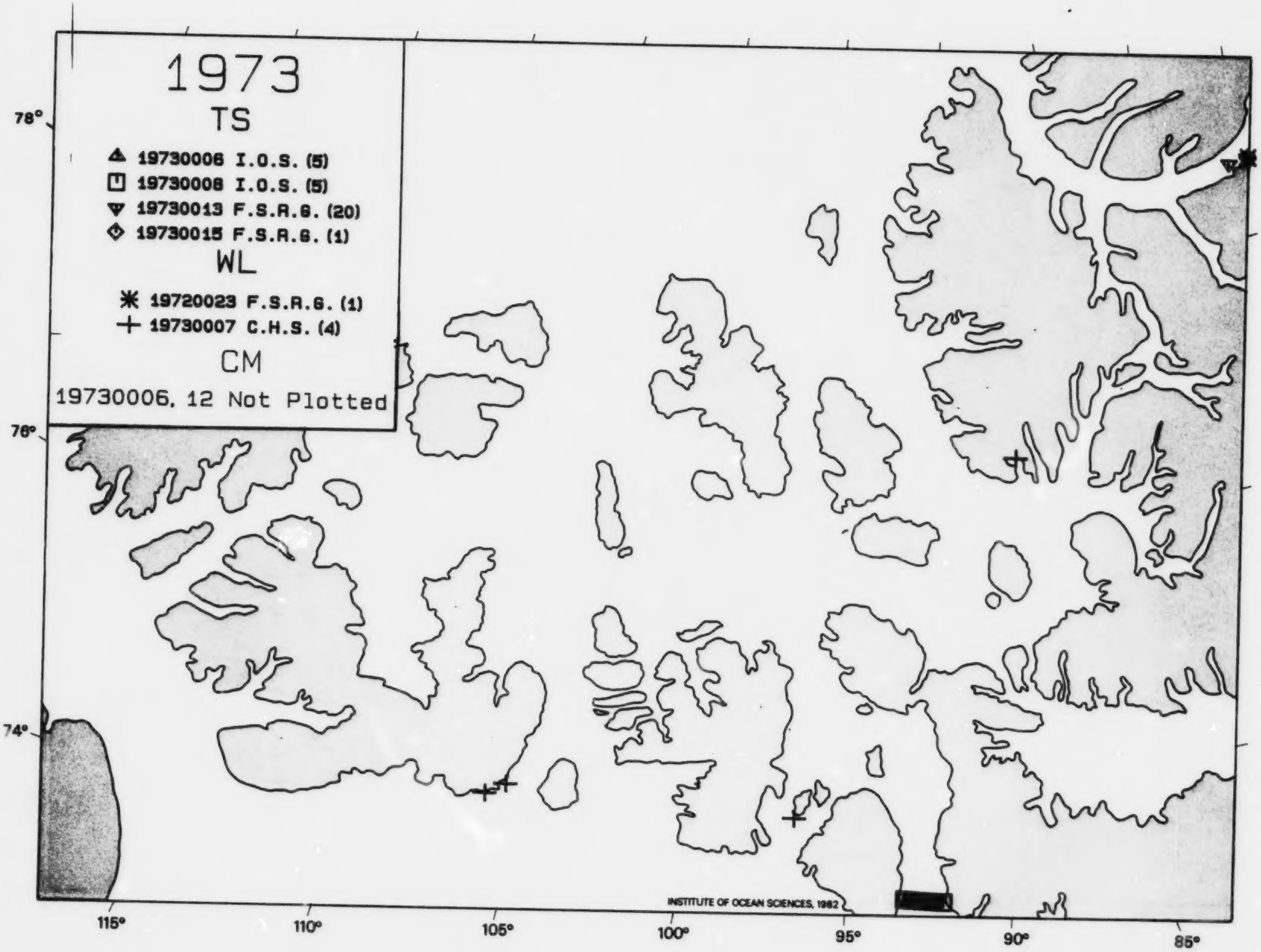
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◻ 19730008 I.O.S. (5)
▼ 19730013 F.S.R.S. (20)
◇ 19730015 F.S.R.S. (1)
WL
✳ 19720023 F.S.R.S. (1)
+ 19730007 C.H.S. (4)
CM
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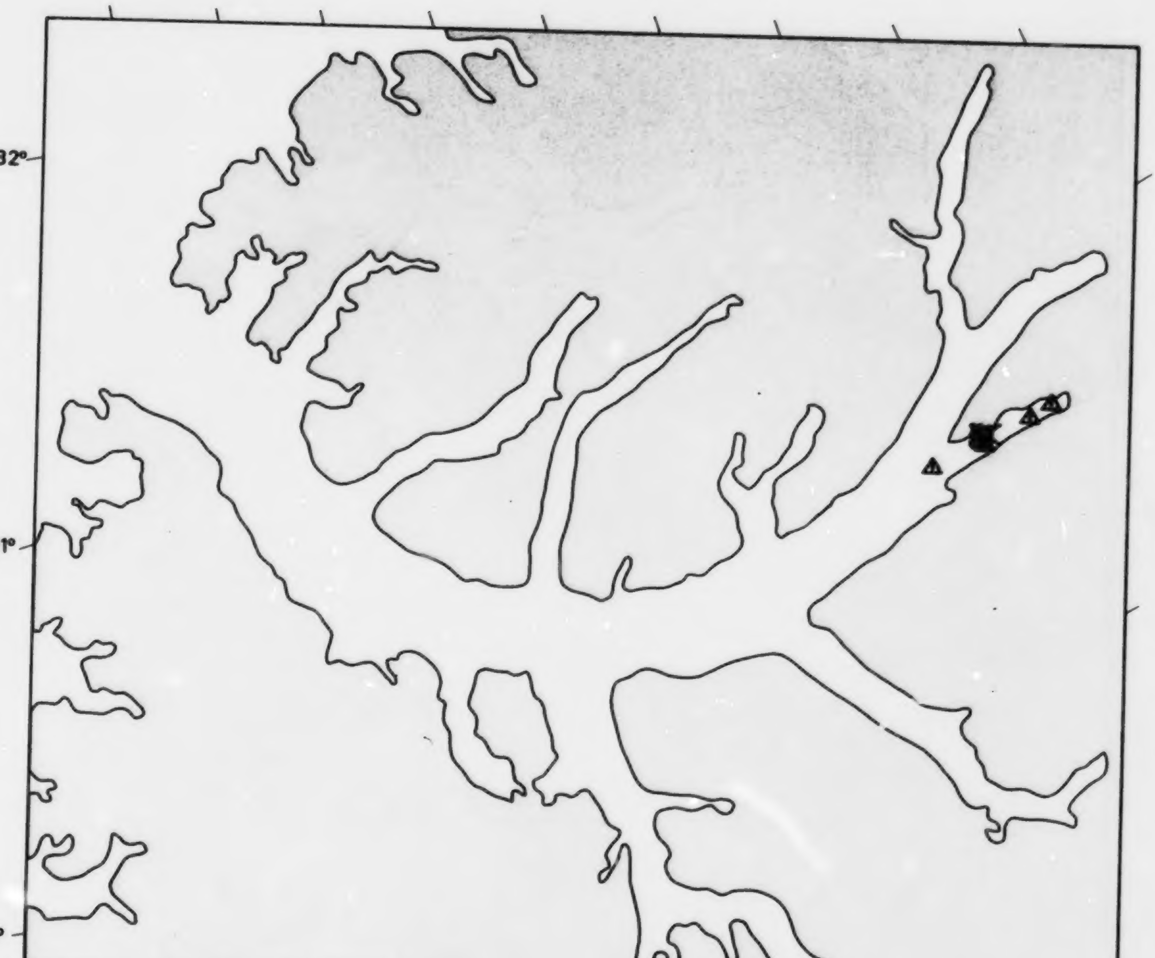
INSTITUTE OF OCEAN SCIENCES, 1982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1973
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+ 19730007 C.H.S. (1)
× 19730013 F.S.R.G. (1)
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INSTITUTE OF OCEAN SCIENCES, 1982
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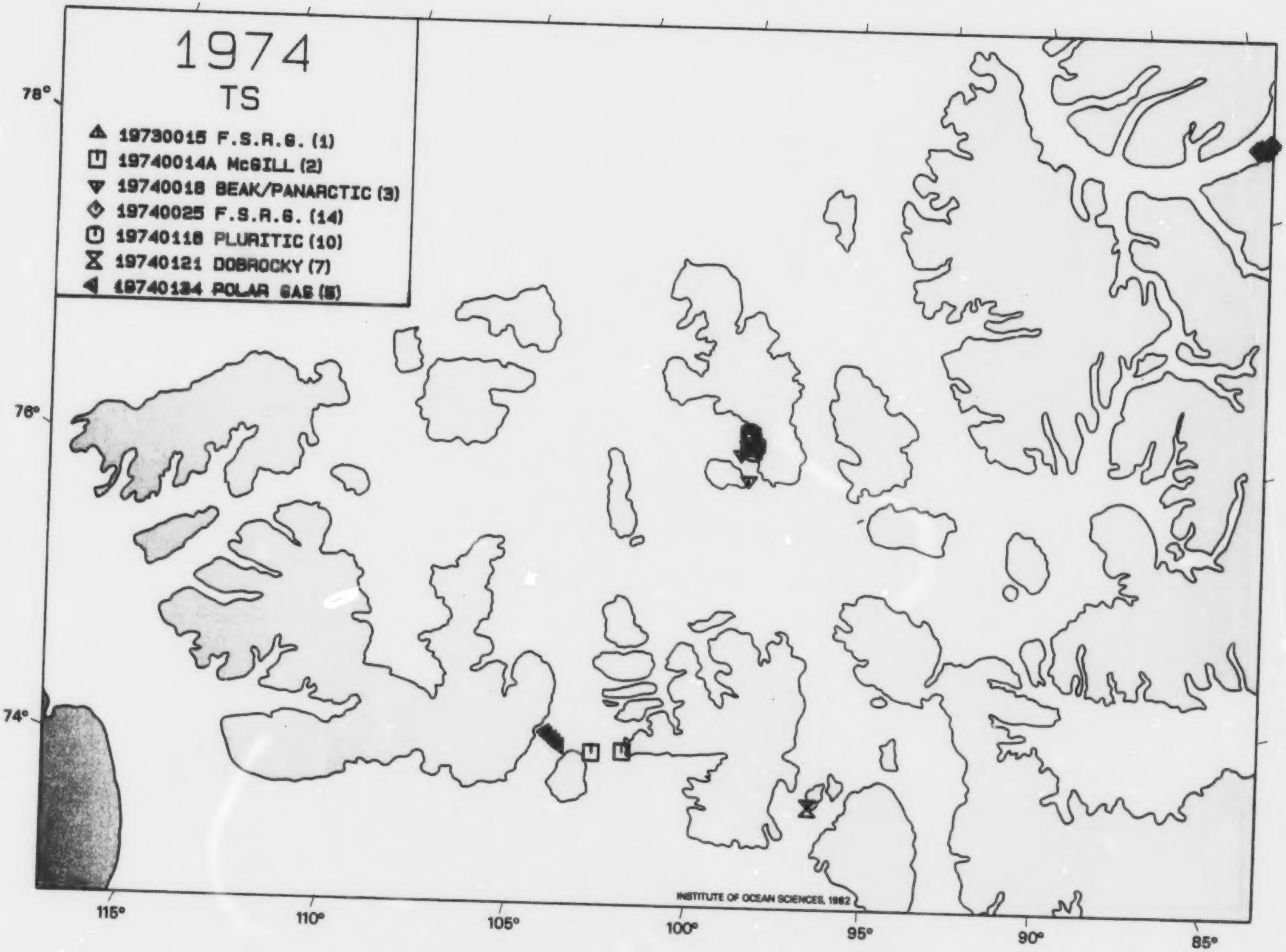
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19740118 PLURITIC (10)
⧗ 19740121 DOBROCKY (7)
◀ 19740134 POLAR GAS (5)
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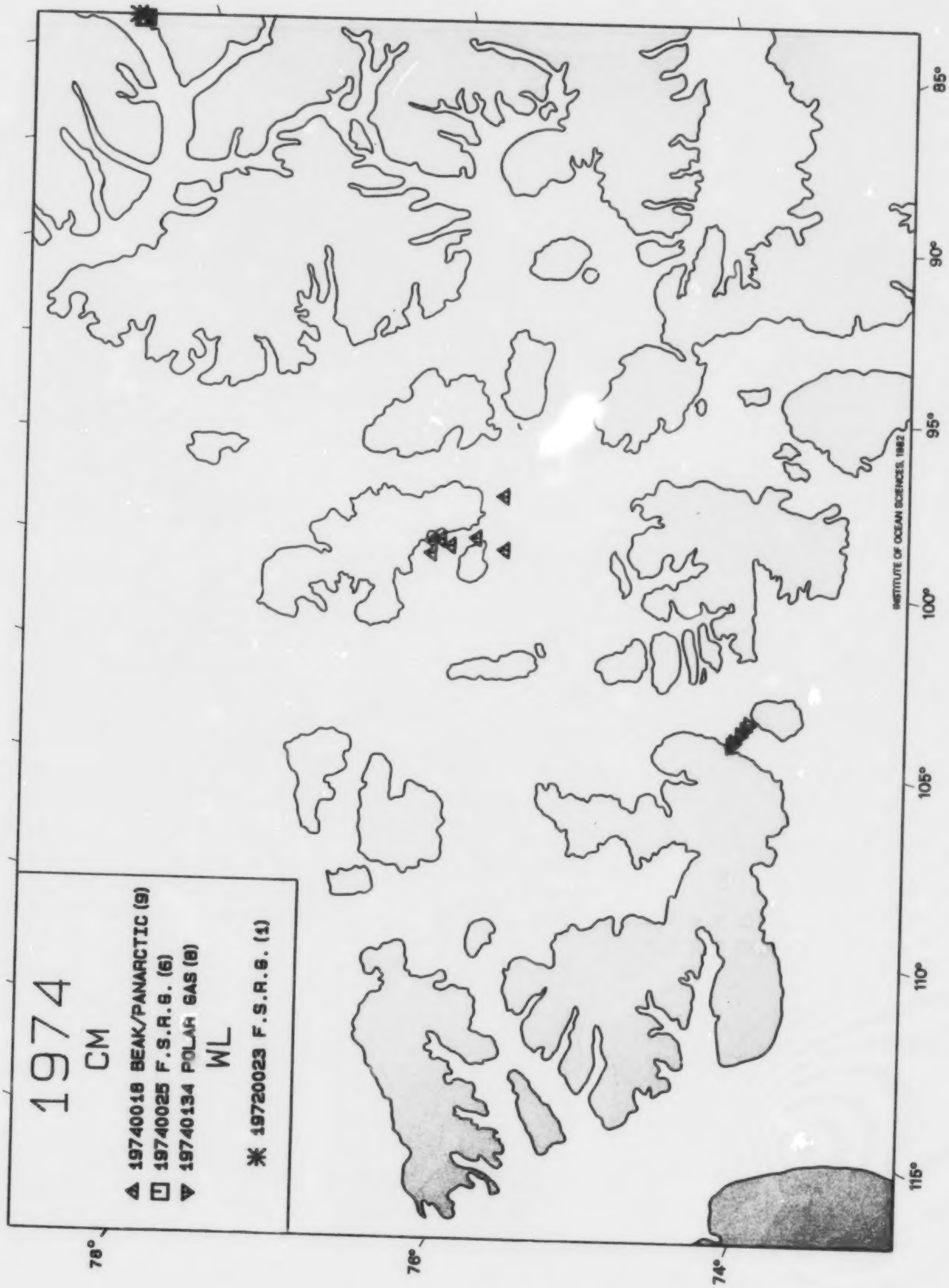
INSTITUTE OF OCEAN SCIENCES, 1982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⊡ 19740025 F.S.R.S. (6)
▼ 19740134 POLAR GAS (8)
WL
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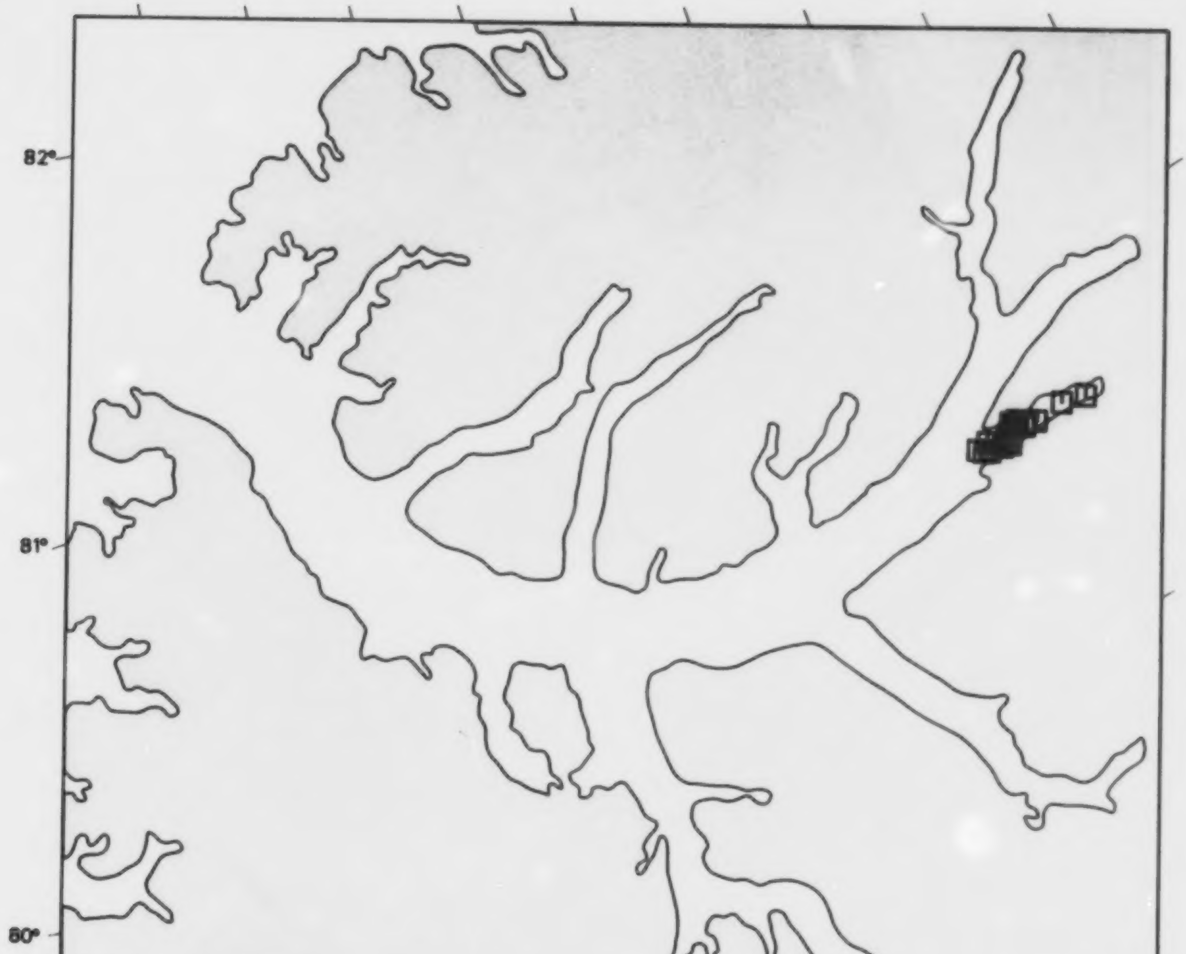
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1974
TS
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INSTITUTE OF OCEAN SCIENCES, 1982
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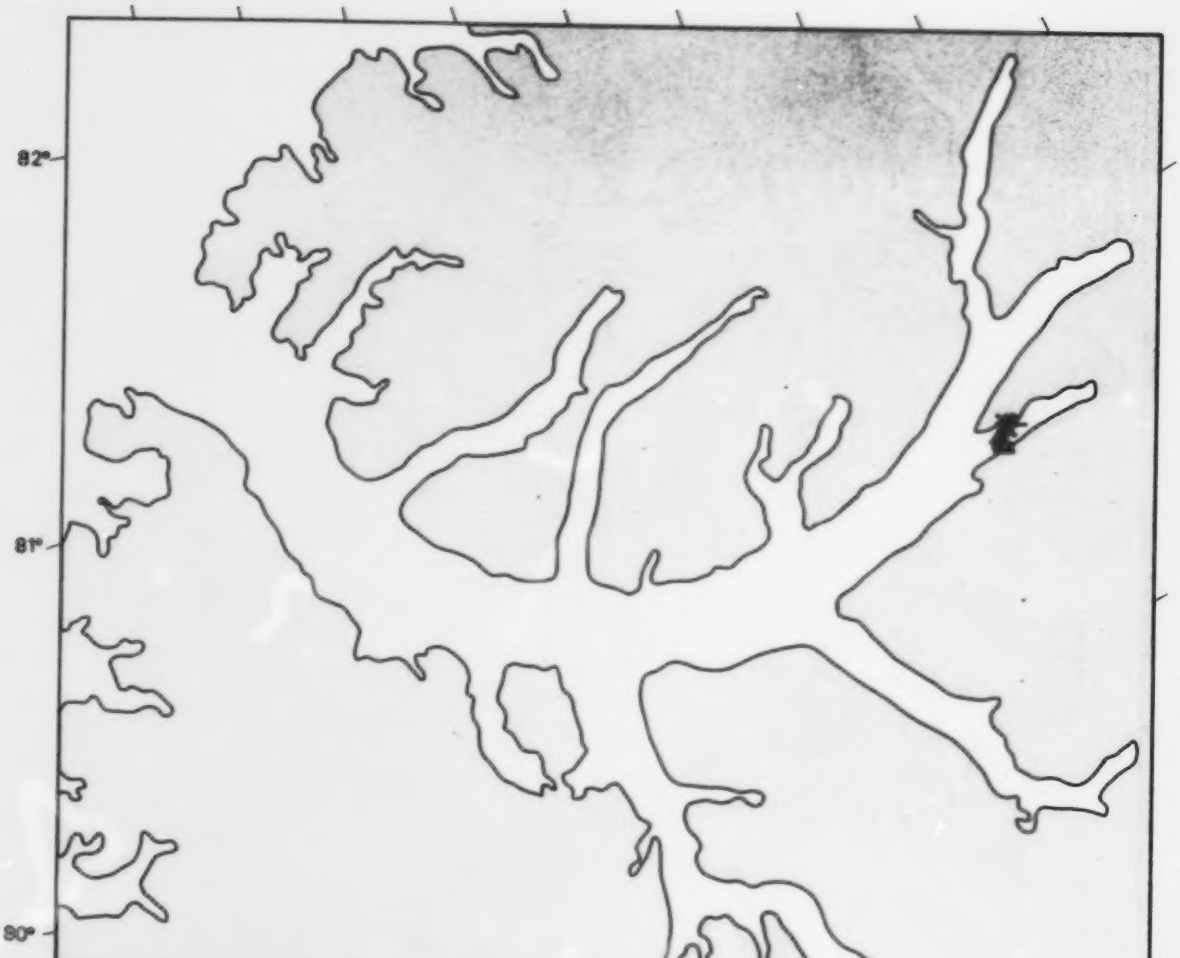
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1974
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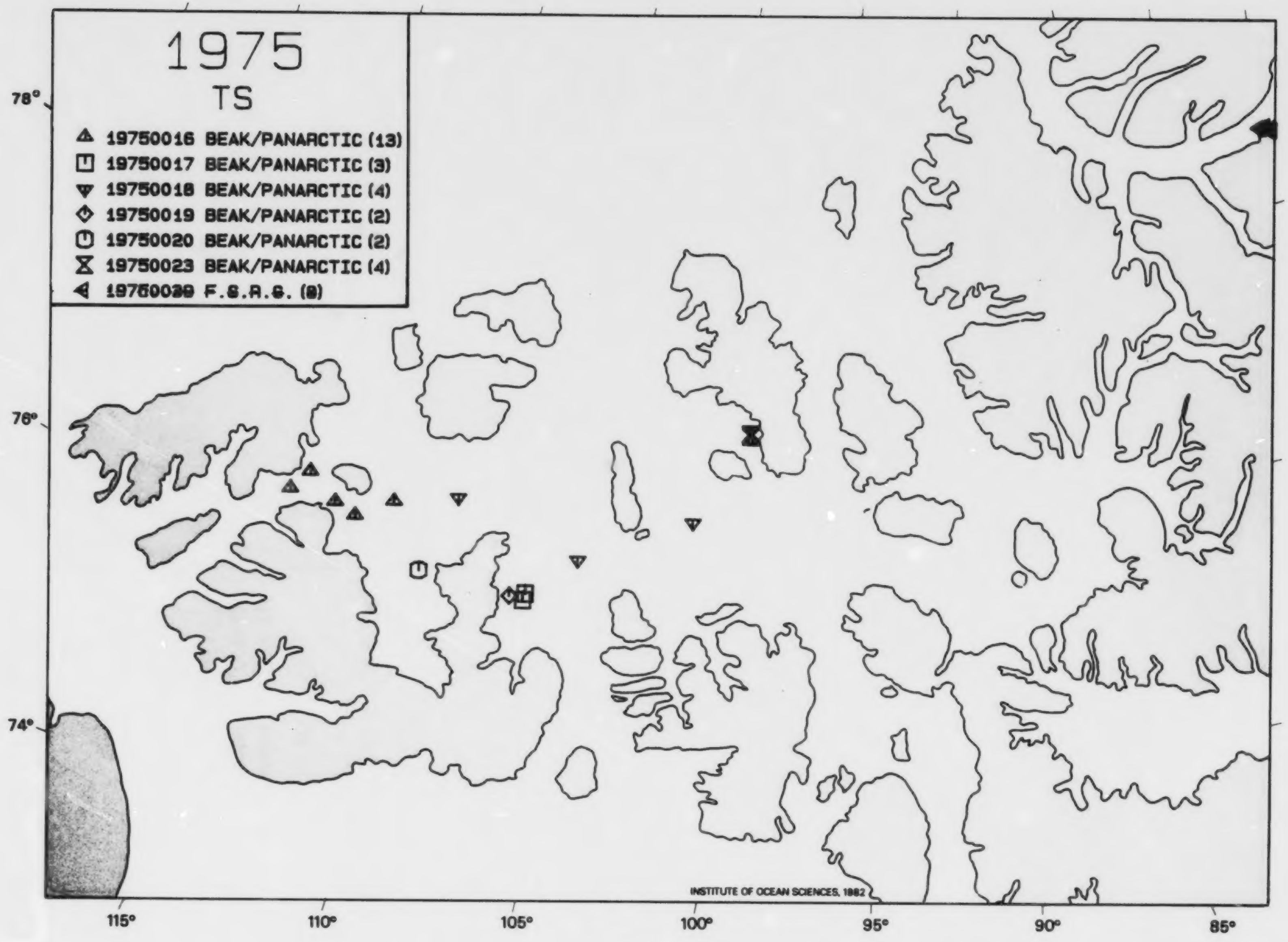
INSTITUTE OF OCEAN SCIENCES, 1982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19750018 BEAK/PANARCTIC (4)
19750019 BEAK/PANARCTIC (2)
19750020 BEAK/PANARCTIC (2)
19750023 BEAK/PANARCTIC (4)
19750039 F.S.R.S. (8)
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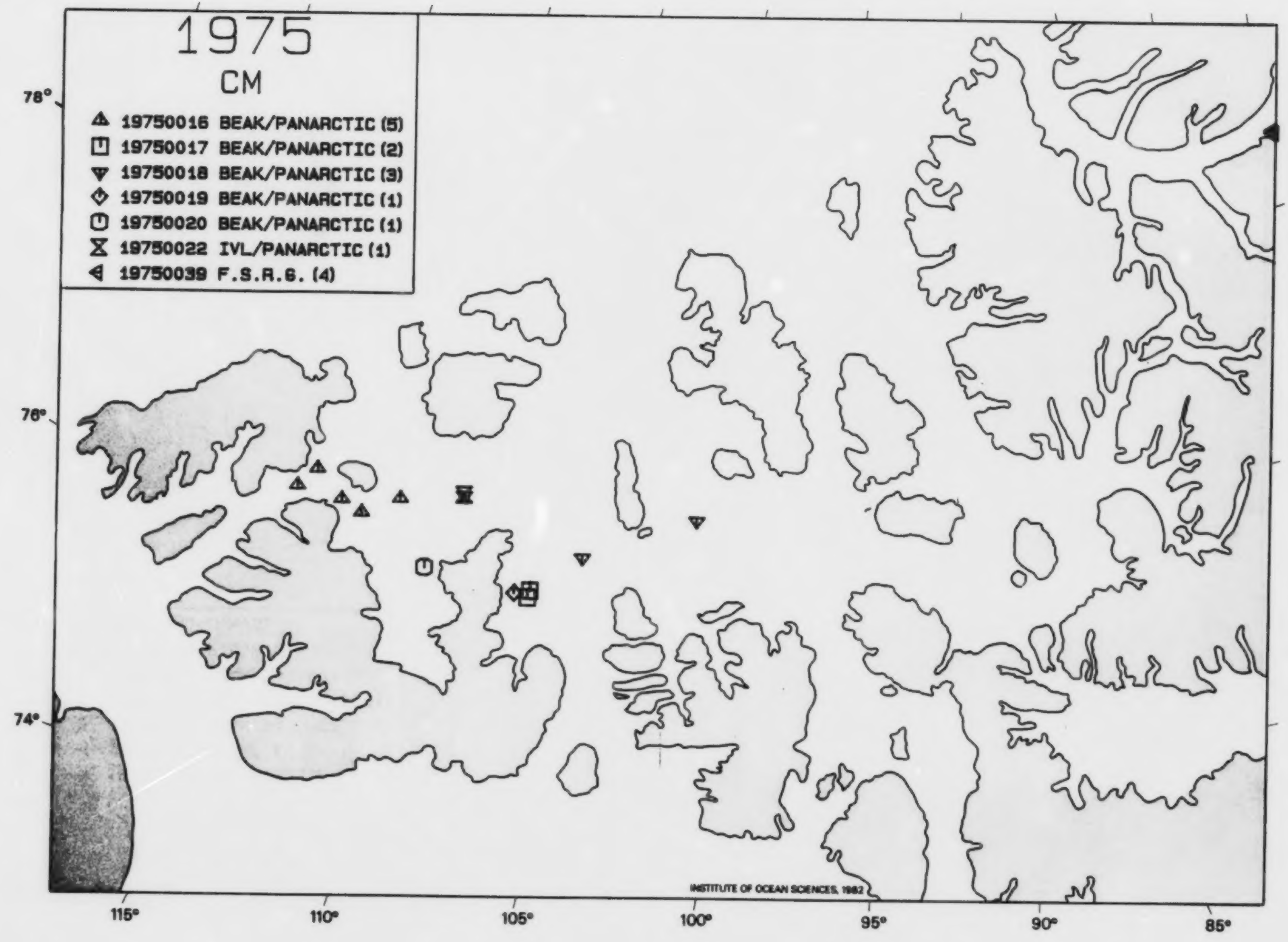
INSTITUTE OF OCEAN SCIENCES, 1982


1975
CM
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19750017 BEAK/PANARCTIC (2)
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◇ 19750019 BEAK/PANARCTIC (1)
19750020 BEAK/PANARCTIC (1)
⧗ 19750022 IVL/PANARCTIC (1)
◀ 19750039 F.S.R.G. (4)
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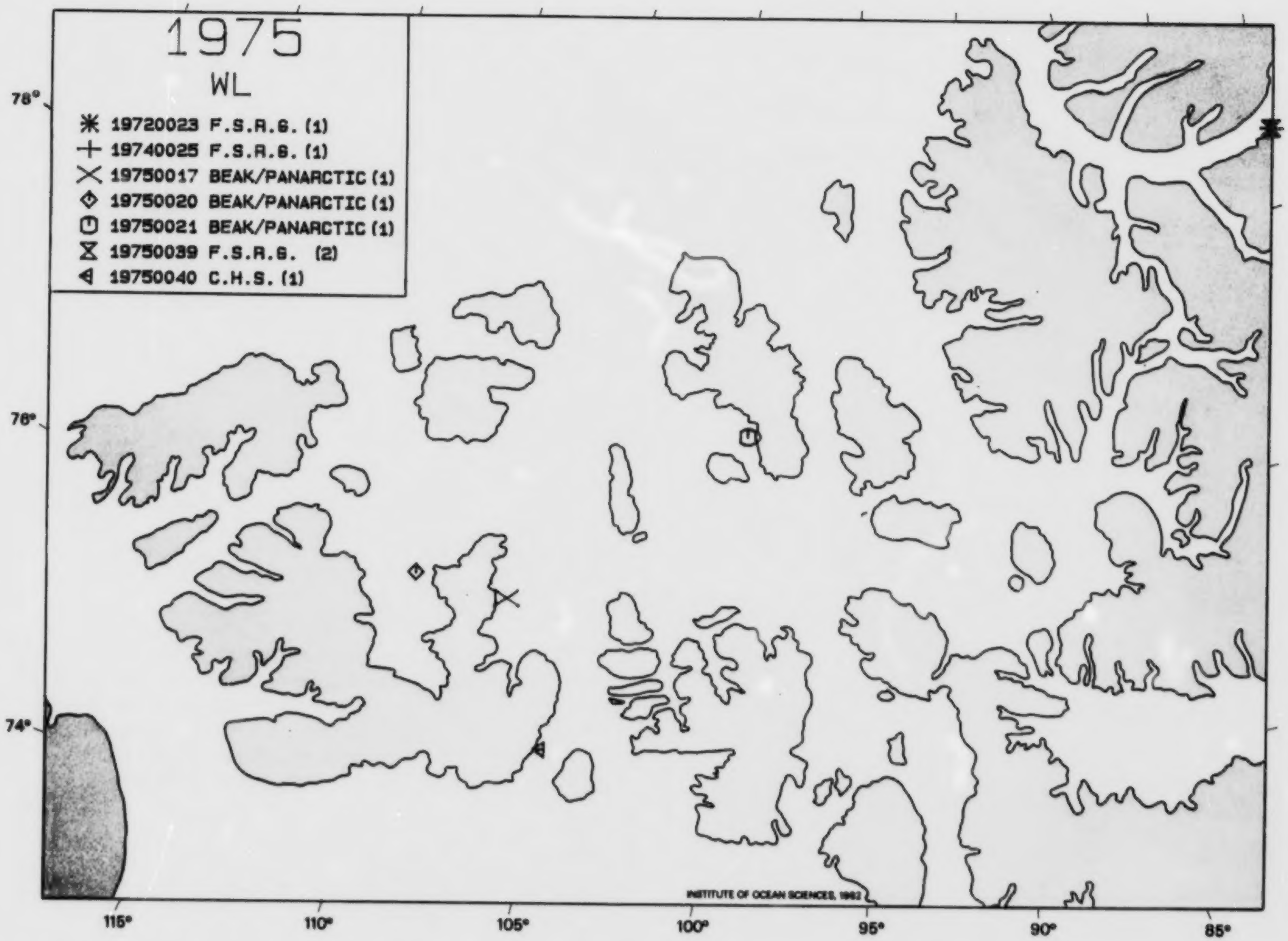
INSTITUTE OF OCEAN SCIENCES, 1982


1975
WL
✱ 19720023 F.S.R.G. (1)
+ 19740025 F.S.R.G. (1)
✕ 19750017 BEAK/PANARCTIC (1)
◇ 19750020 BEAK/PANARCTIC (1)
▢ 19750021 BEAK/PANARCTIC (1)
⧗ 19750039 F.S.R.G. (2)
◁ 19750040 C.H.S. (1)
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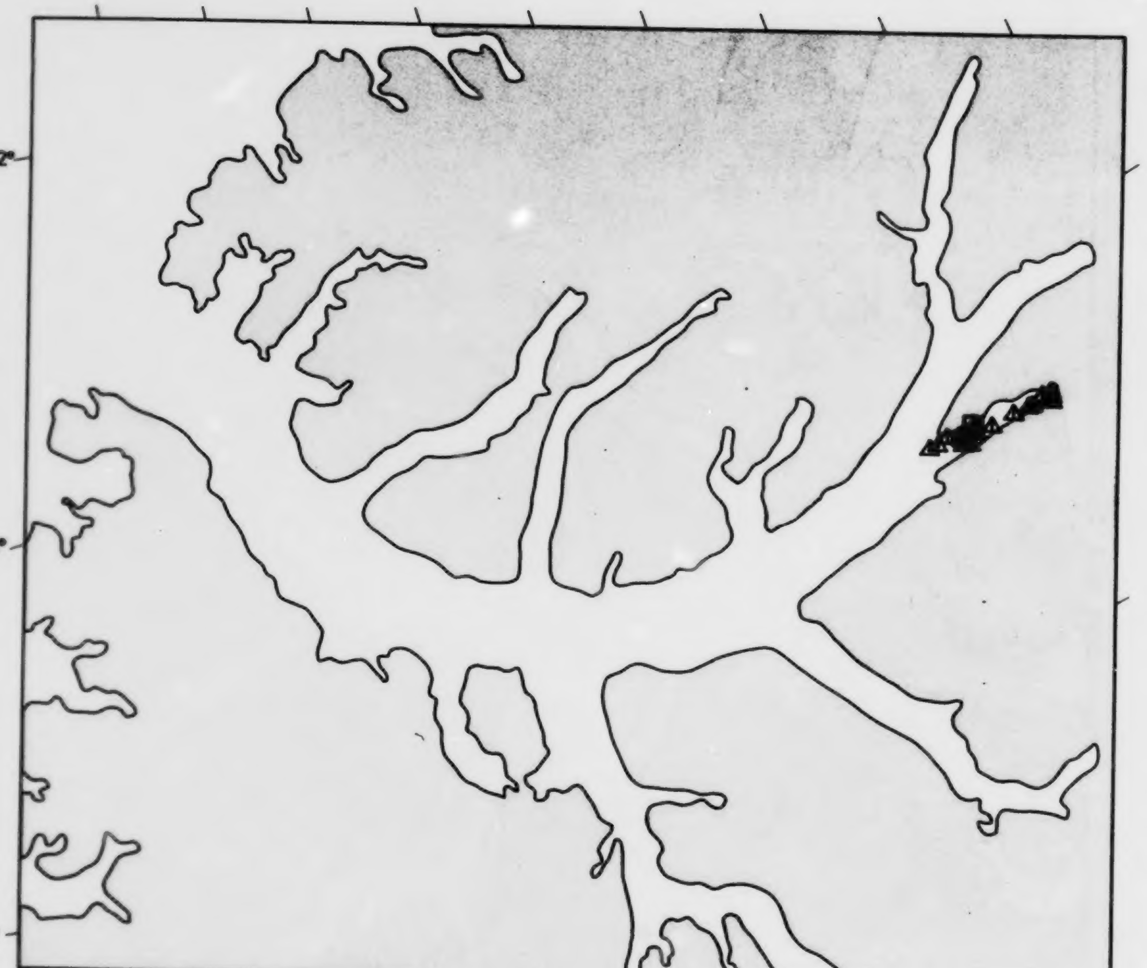
INSTITUTE OF OCEAN SCIENCES, 1982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1975
TS
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INSTITUTE OF OCEAN SCIENCES, 1982
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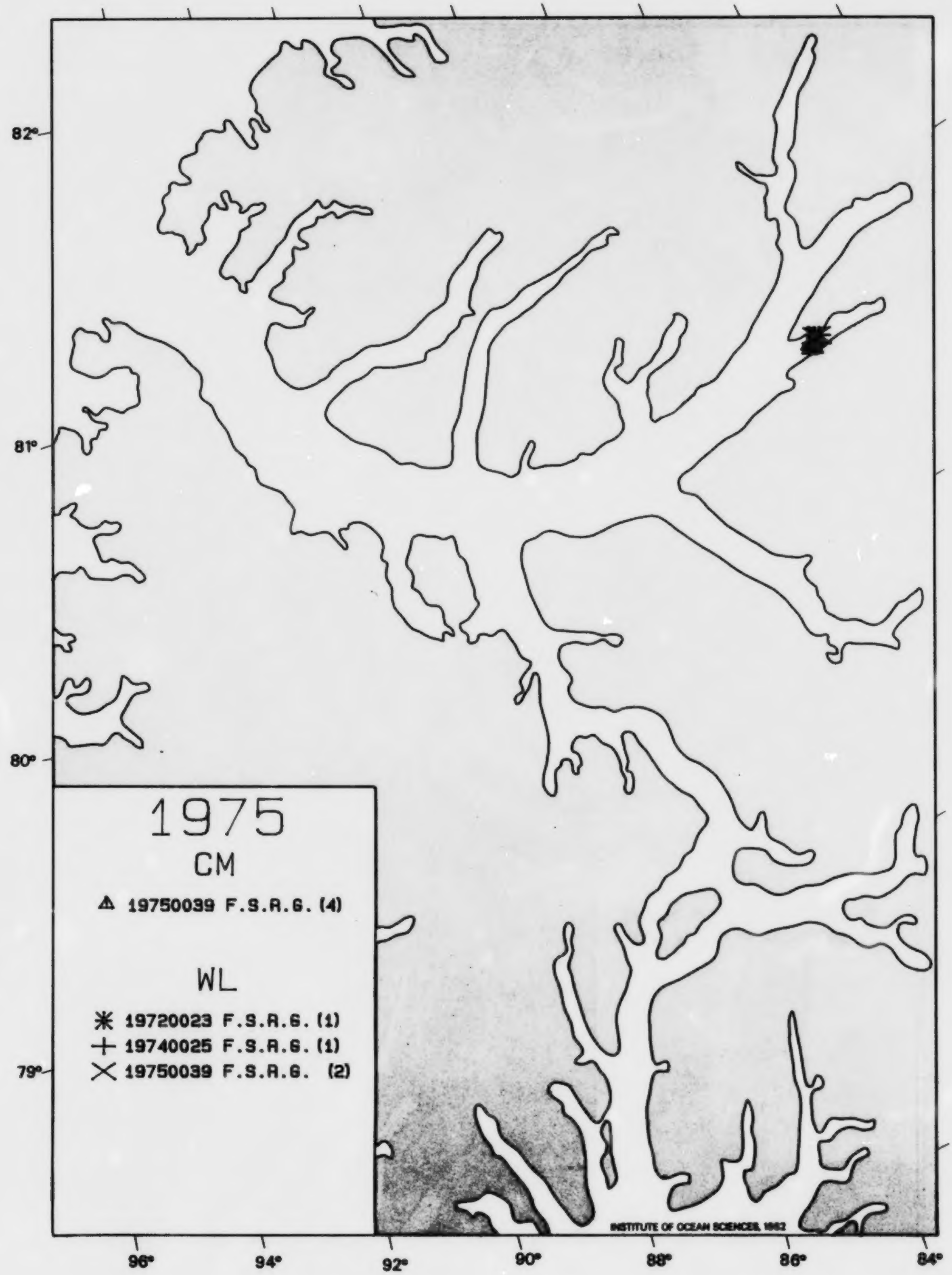
1975
CM
△ 19750039 F.S.R.G. (4)
WL
✳ 19720023 F.S.R.G. (1)
+ 19740025 F.S.R.G. (1)
× 19750039 F.S.R.G. (2)
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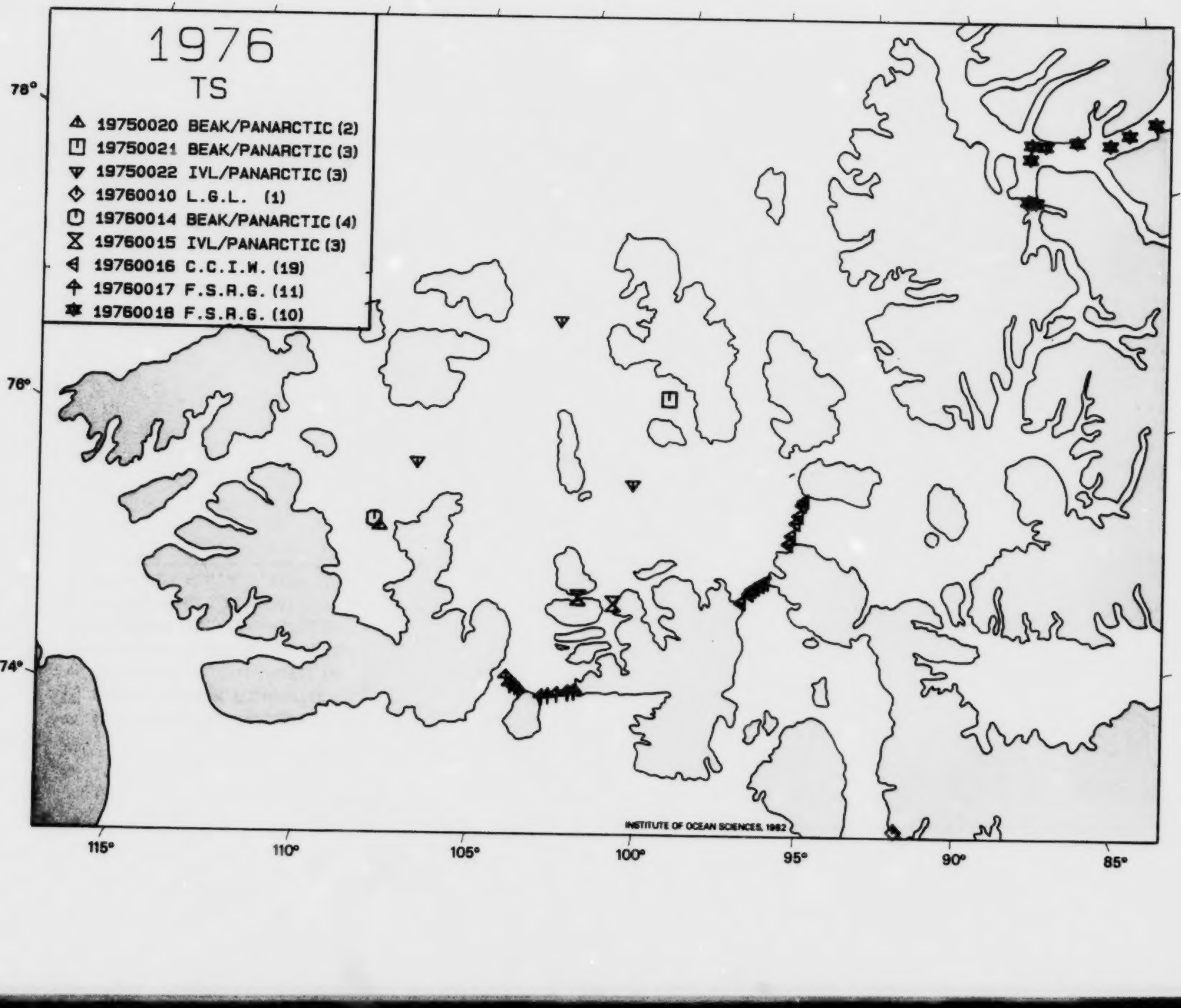
INSTITUTE OF OCEAN SCIENCES, 1982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TS
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◆ 19760010 L.G.L. (1)
19760014 BEAK/PANARCTIC (4)
⧗ 19760015 IVL/PANARCTIC (3)
◀ 19760016 C.C.I.W. (19)
✢ 19760017 F.S.R.G. (11)
✶ 19760018 F.S.R.G. (10)
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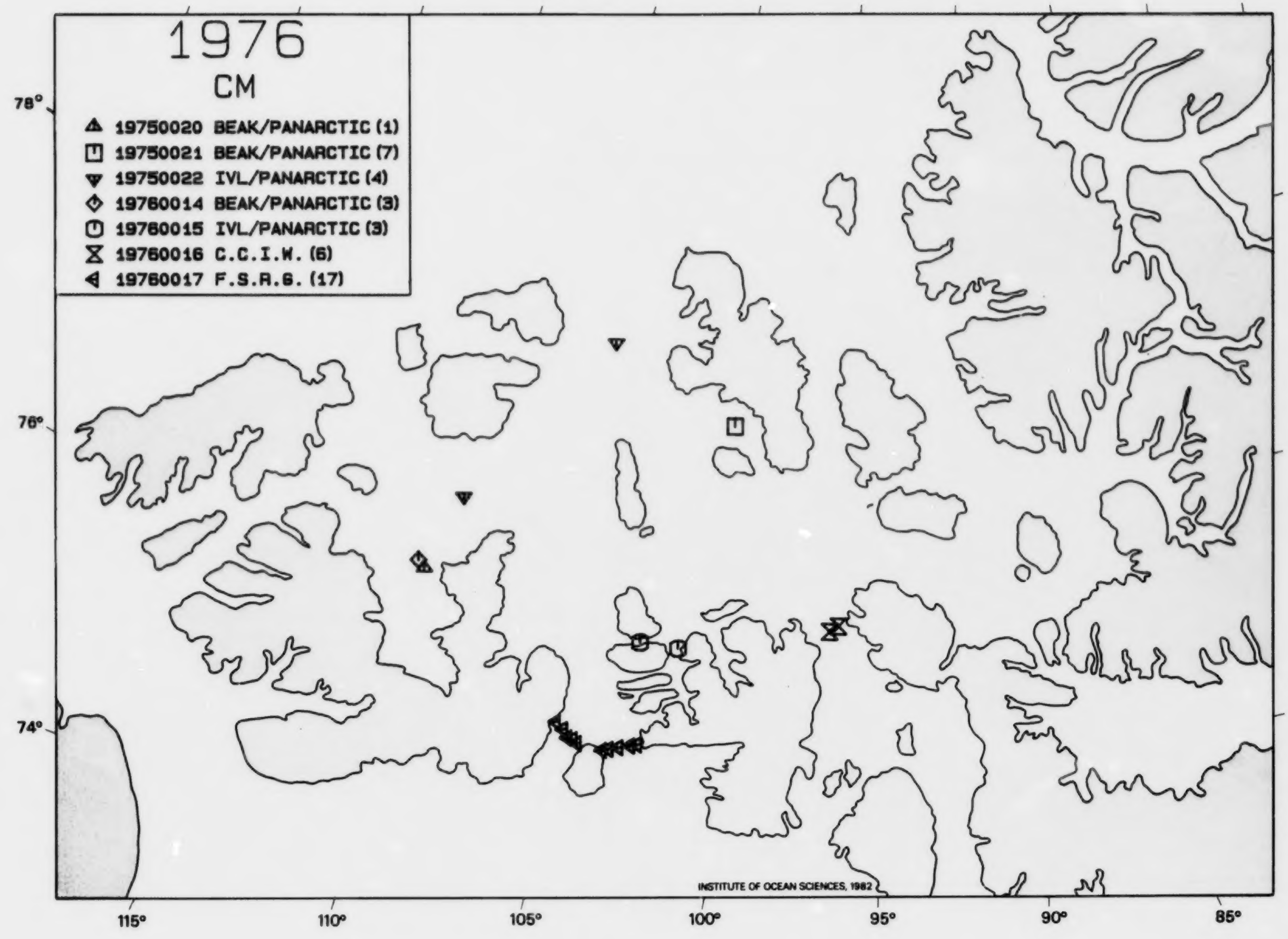
INSTITUTE OF OCEAN SCIENCES, 1982


1976
CM
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○ 19760015 IVL/PANARCTIC (3)
⧖ 19760016 C.C.I.W. (6)
◁ 19760017 F.S.R.G. (17)
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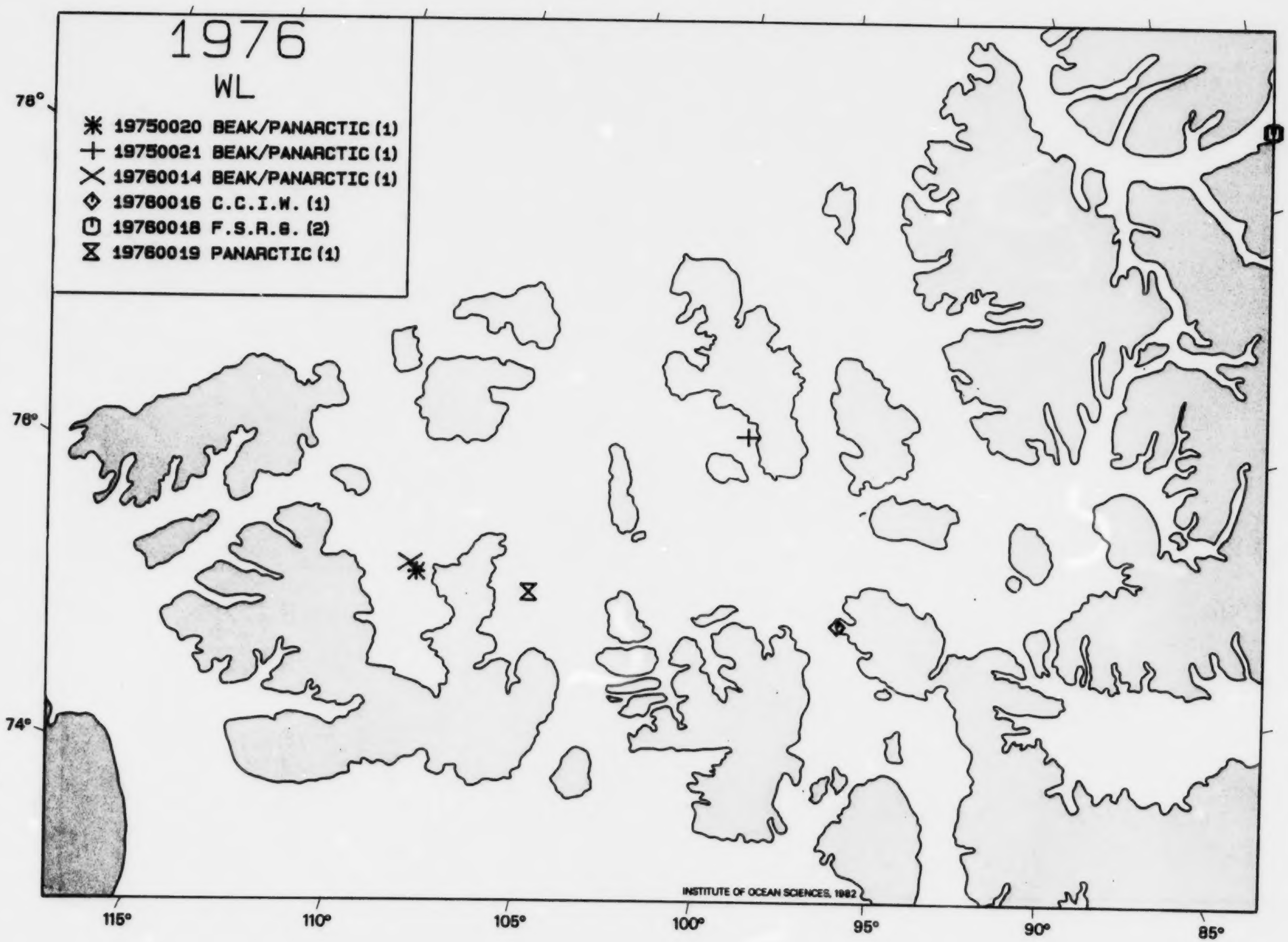
INSTITUTE OF OCEAN SCIENCES, 1982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◇ 19760016 C.C.I.W. (1)
▢ 19760018 F.S.R.S. (2)
⧗ 19760019 PANARCTIC (1)
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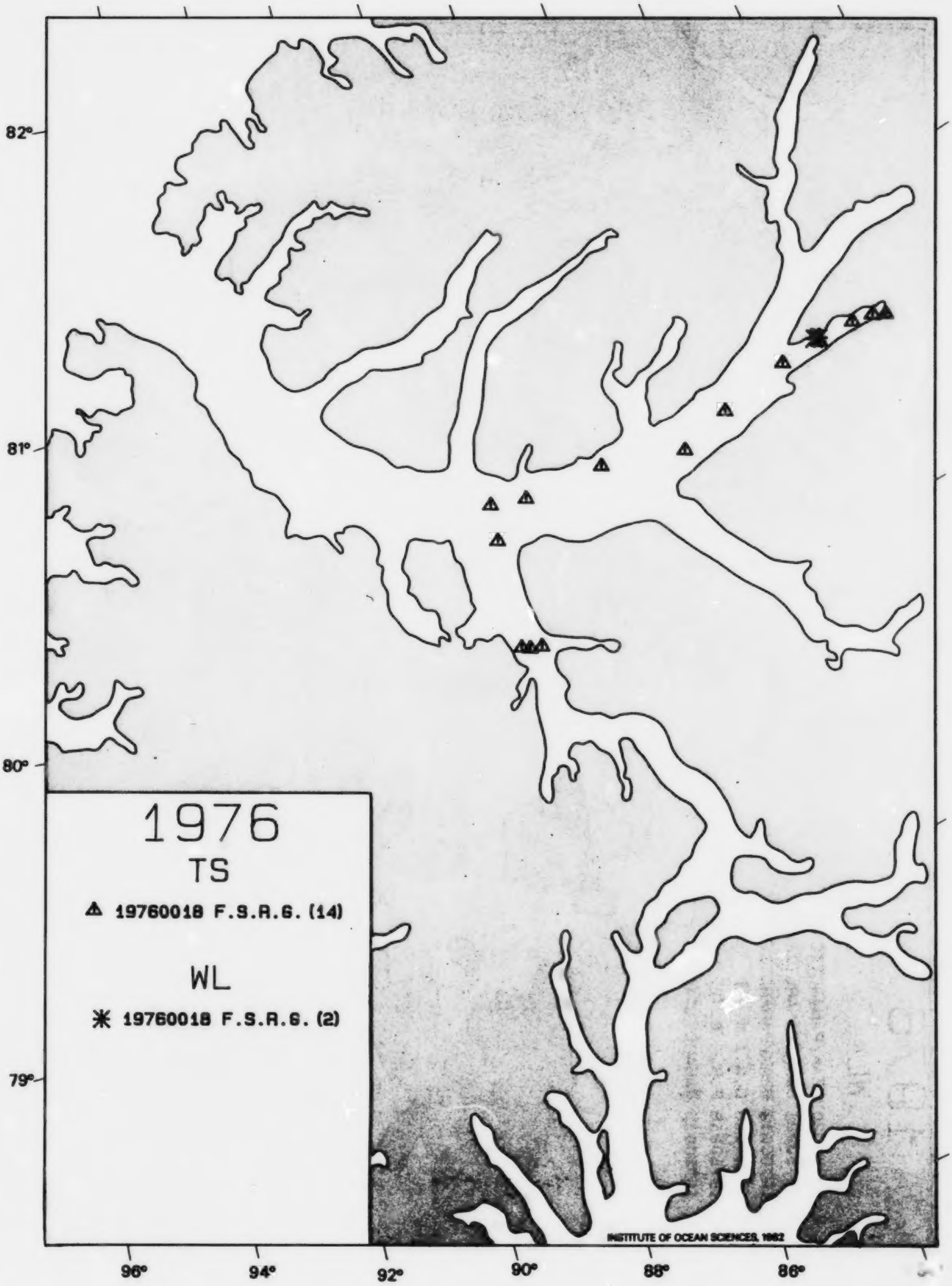
INSTITUTE OF OCEAN SCIENCES, 1982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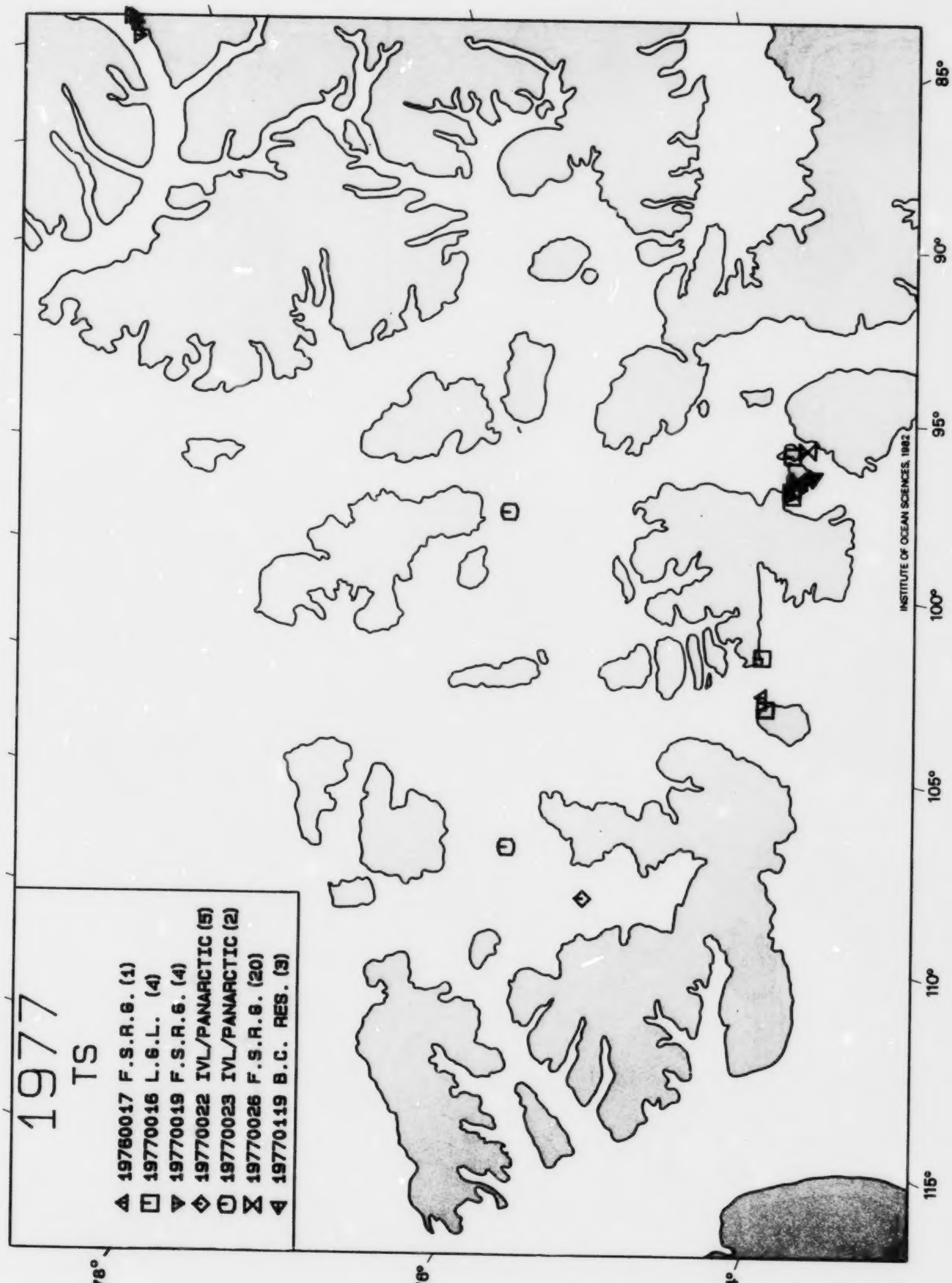
INSTITUTE OF OCEAN SCIENCES, 1982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○ 19770023 IVL/PANARCTIC (2)
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◁ 19770119 B.C. RES. (3)
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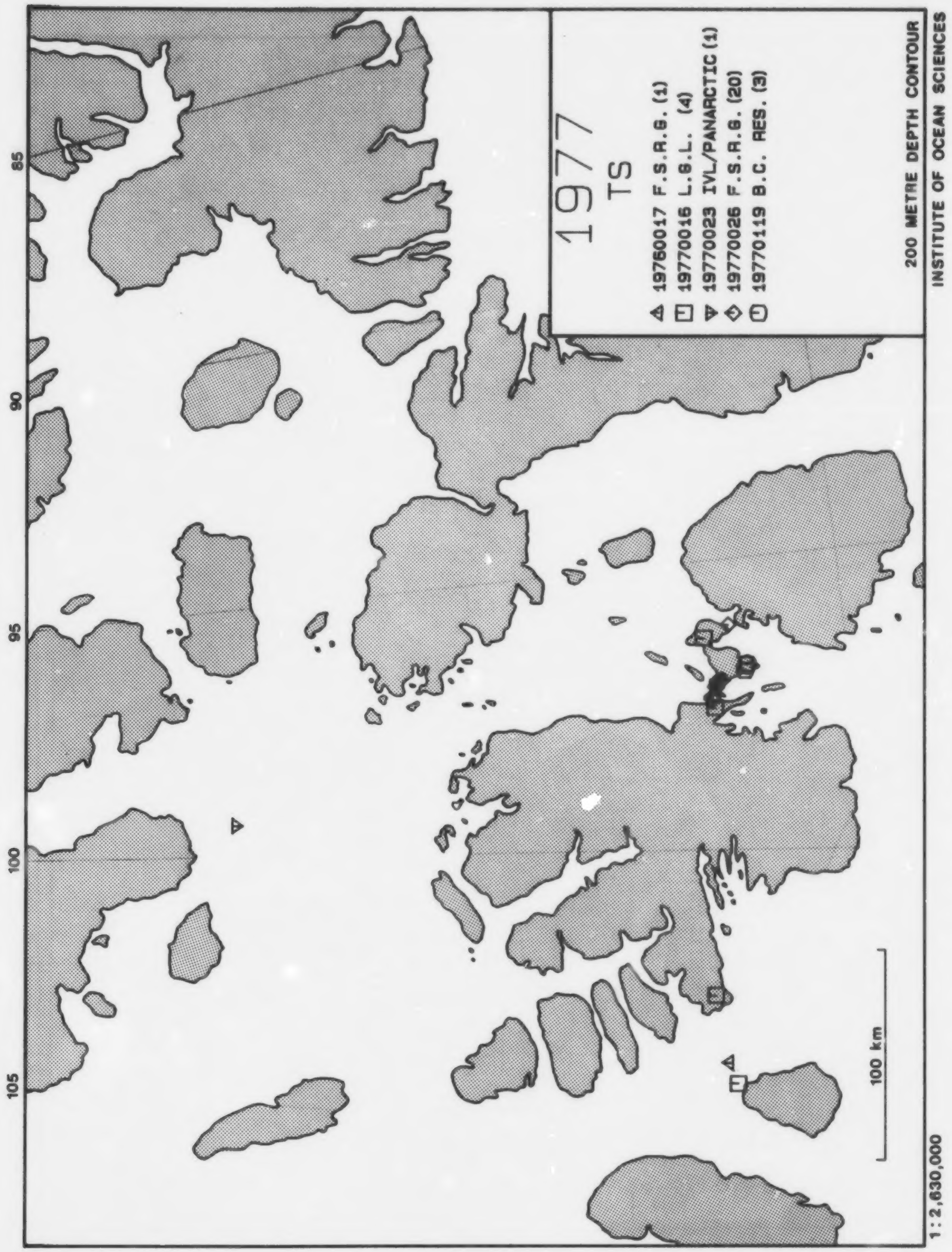
INSTITUTE OF OCEAN SCIENCES, 1982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200 METRE DEPTH CONTOUR
INSTITUTE OF OCEAN SCIENCES
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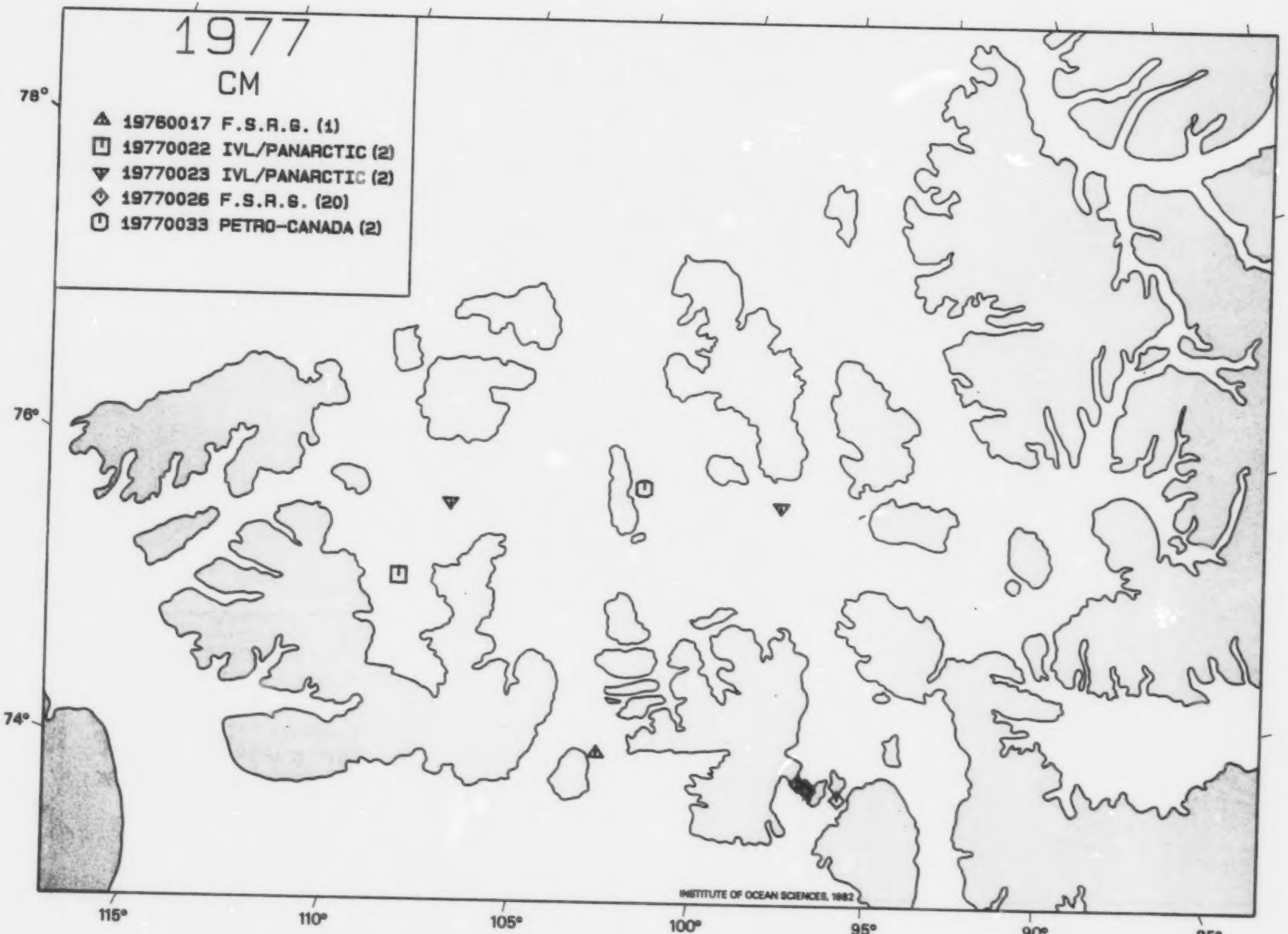
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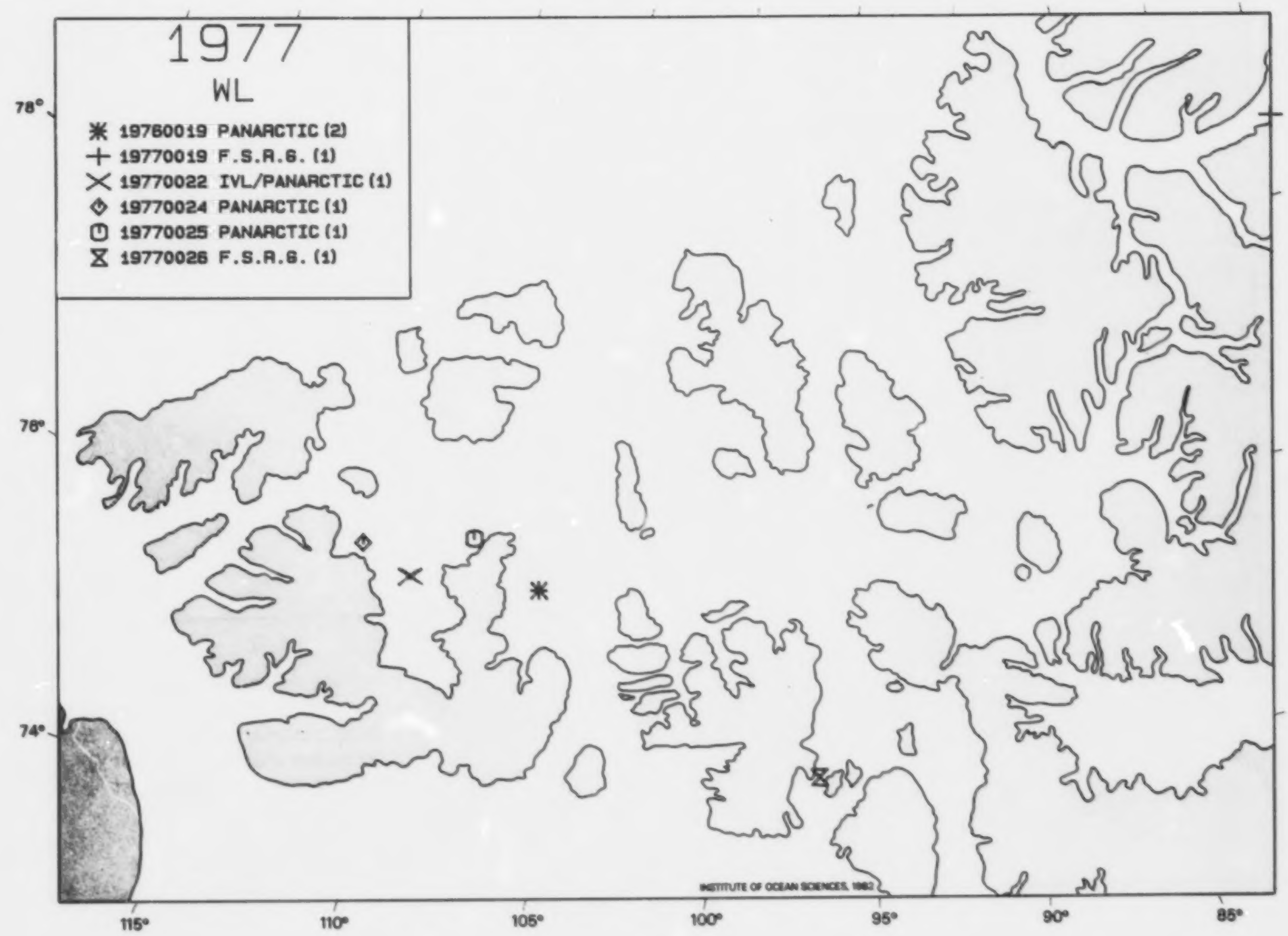
INSTITUTE OF OCEAN SCIENCES, 1982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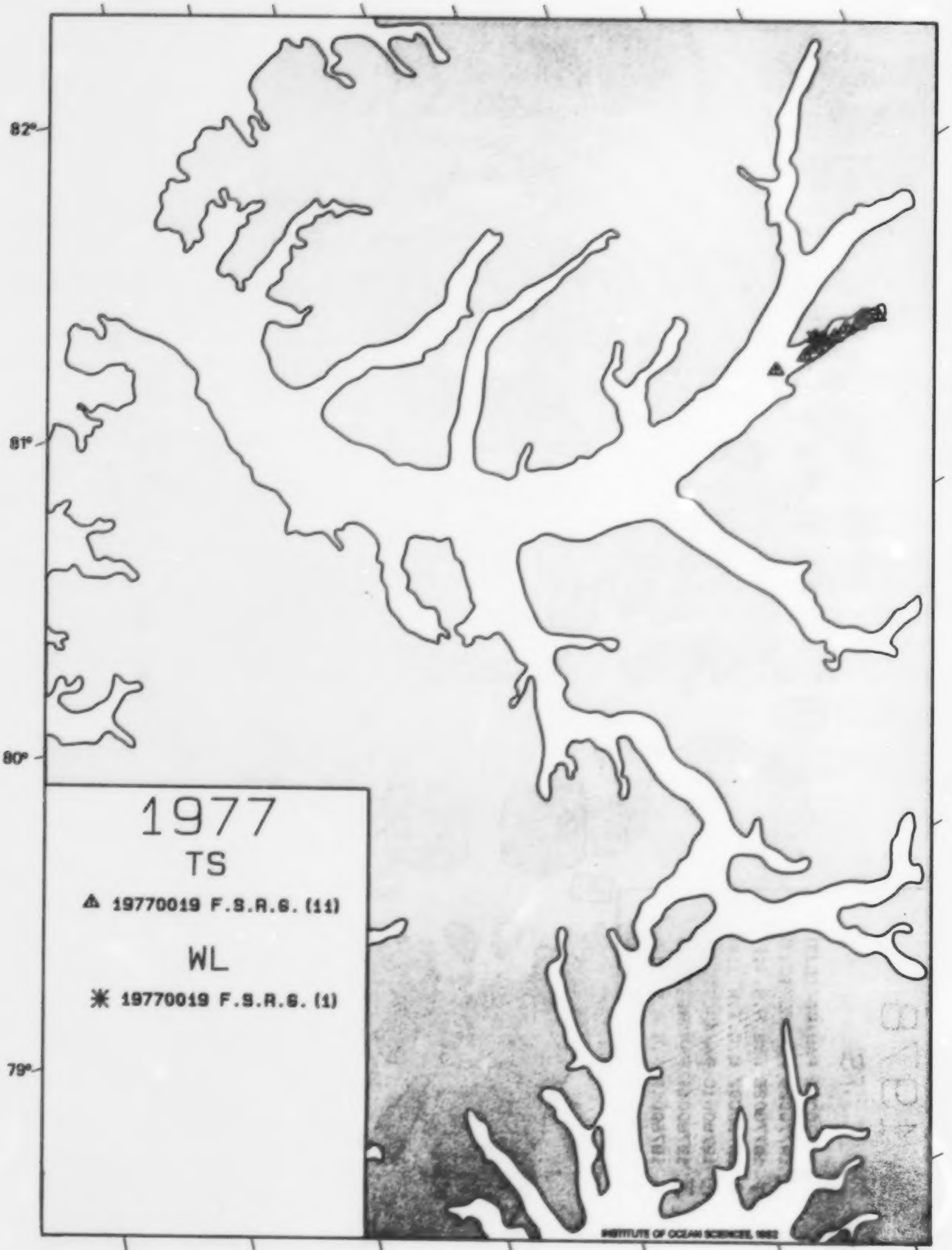
INSTITUTE OF OCEAN SCIENCES, 1982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INSTITUTE OF OCEAN SCIENCES, 1982
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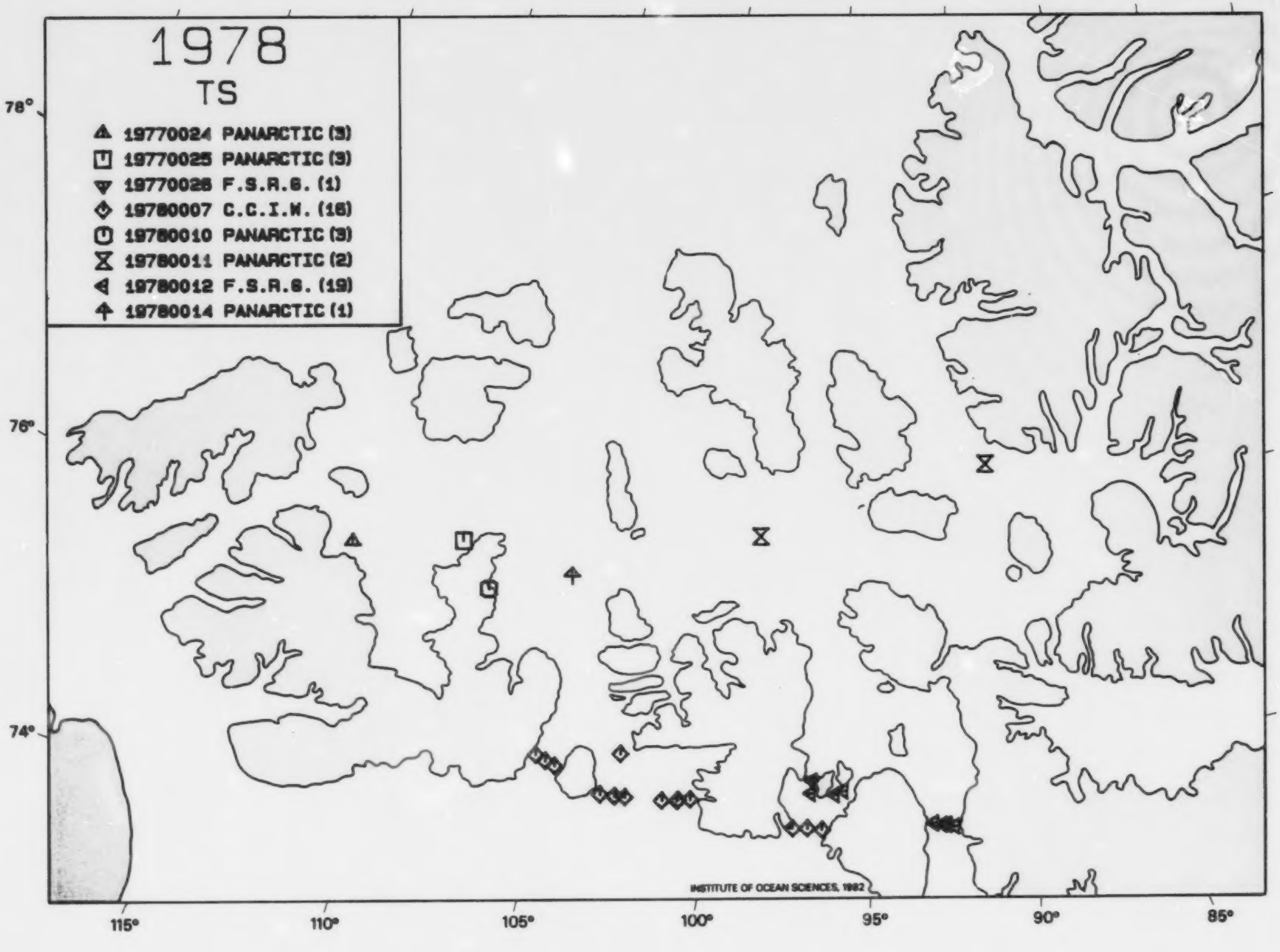
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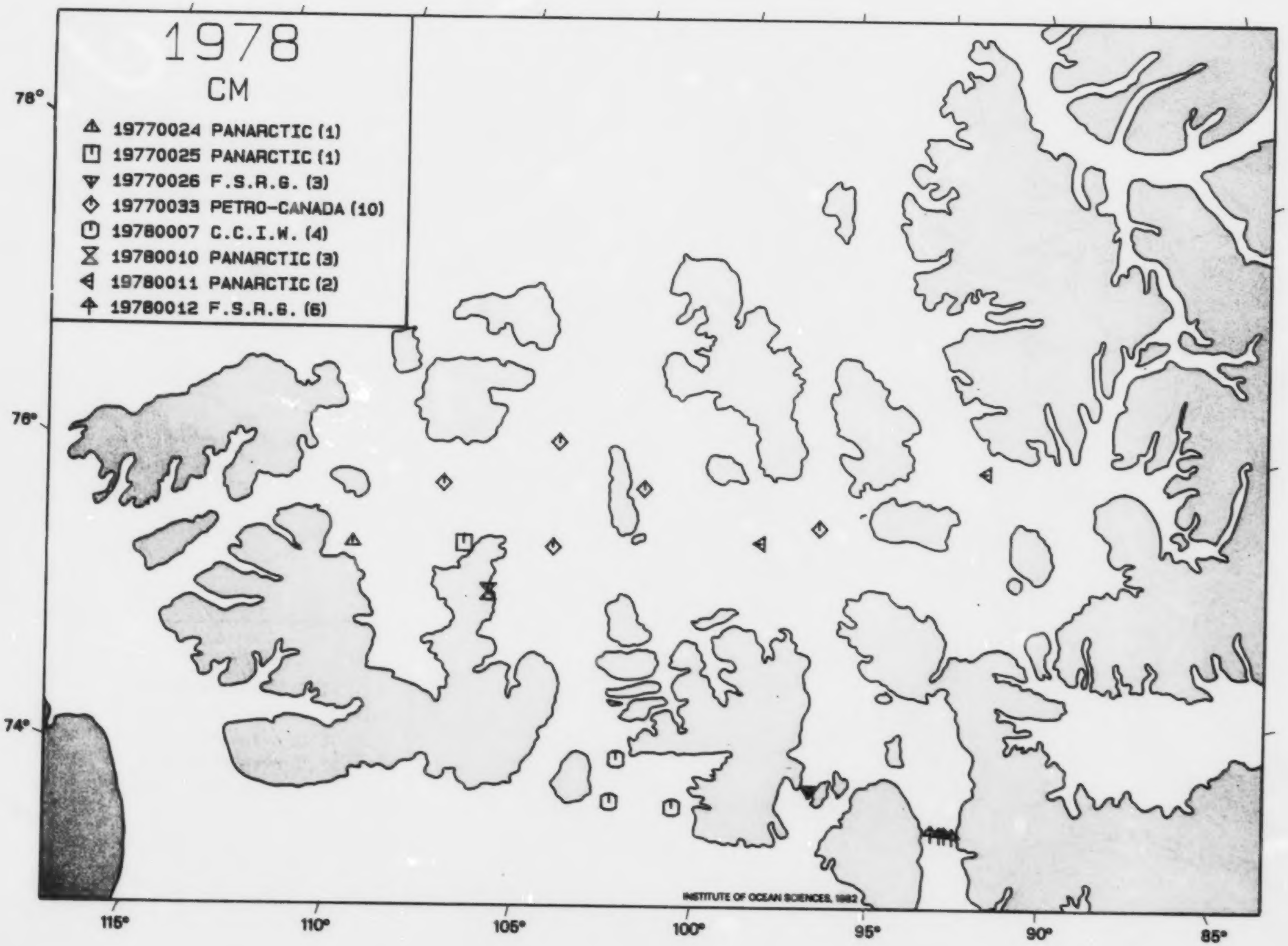
INSTITUTE OF OCEAN SCIENCES, 1982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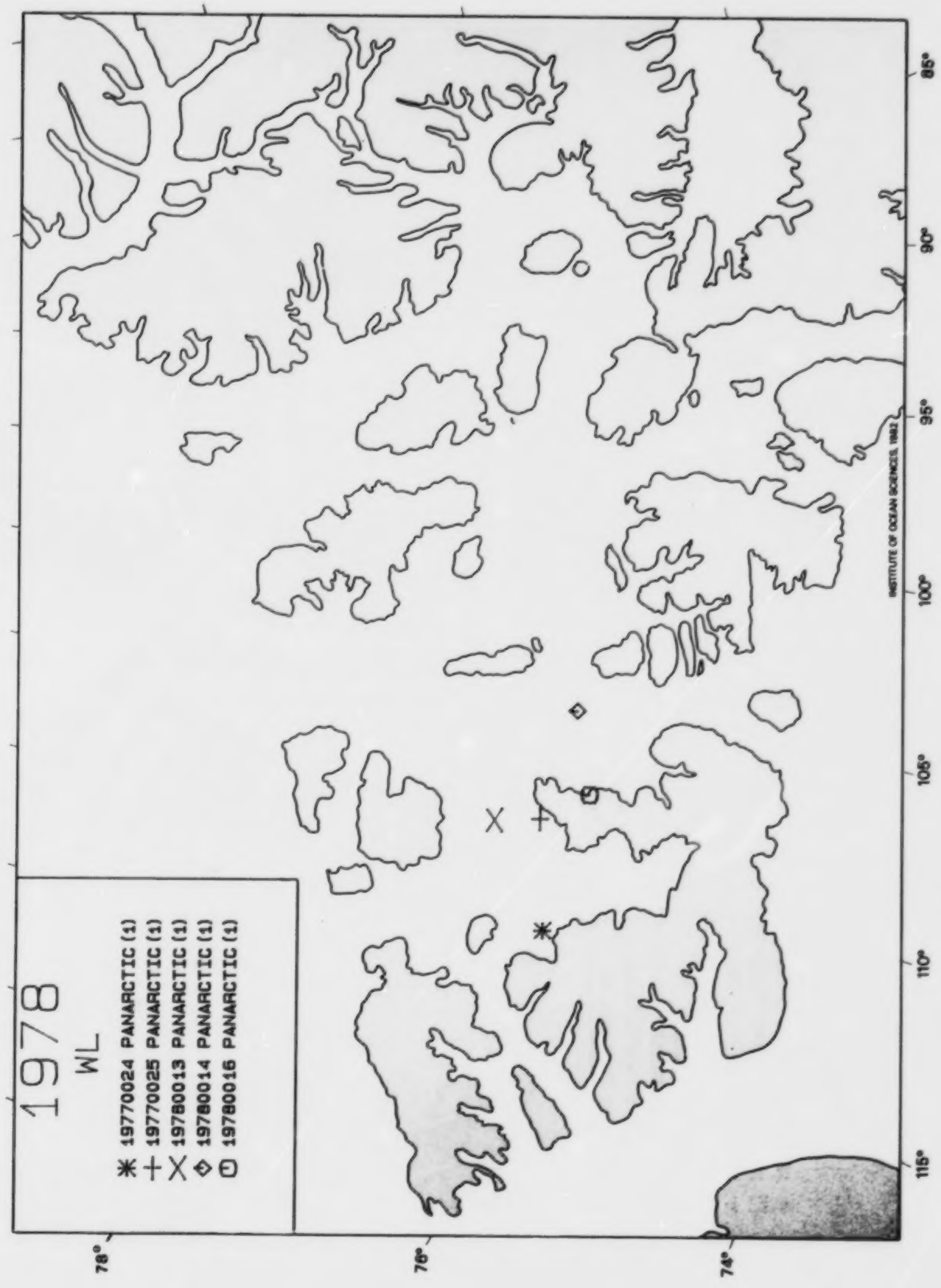
INSTITUTE OF OCEAN SCIENCES, 1982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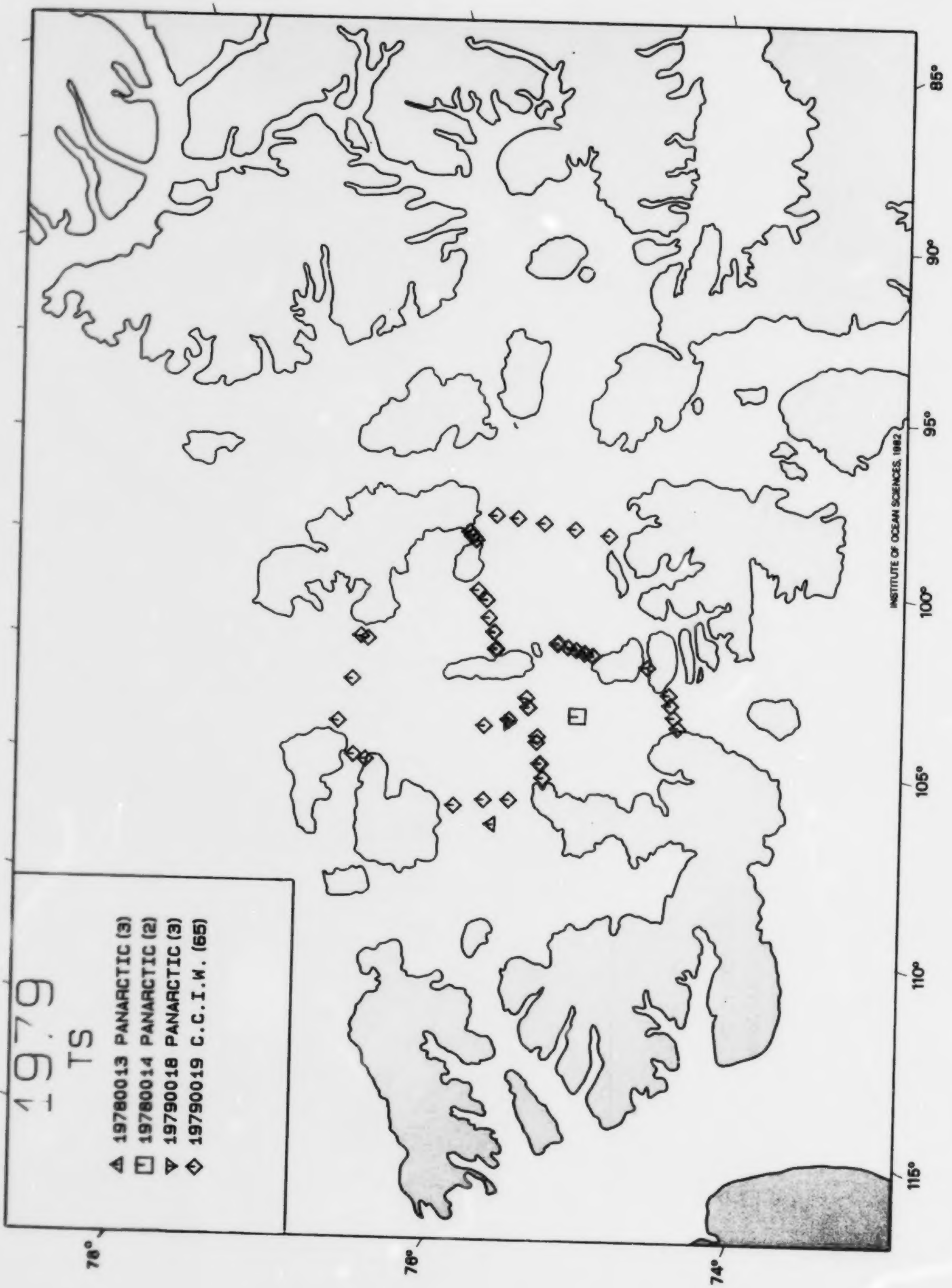
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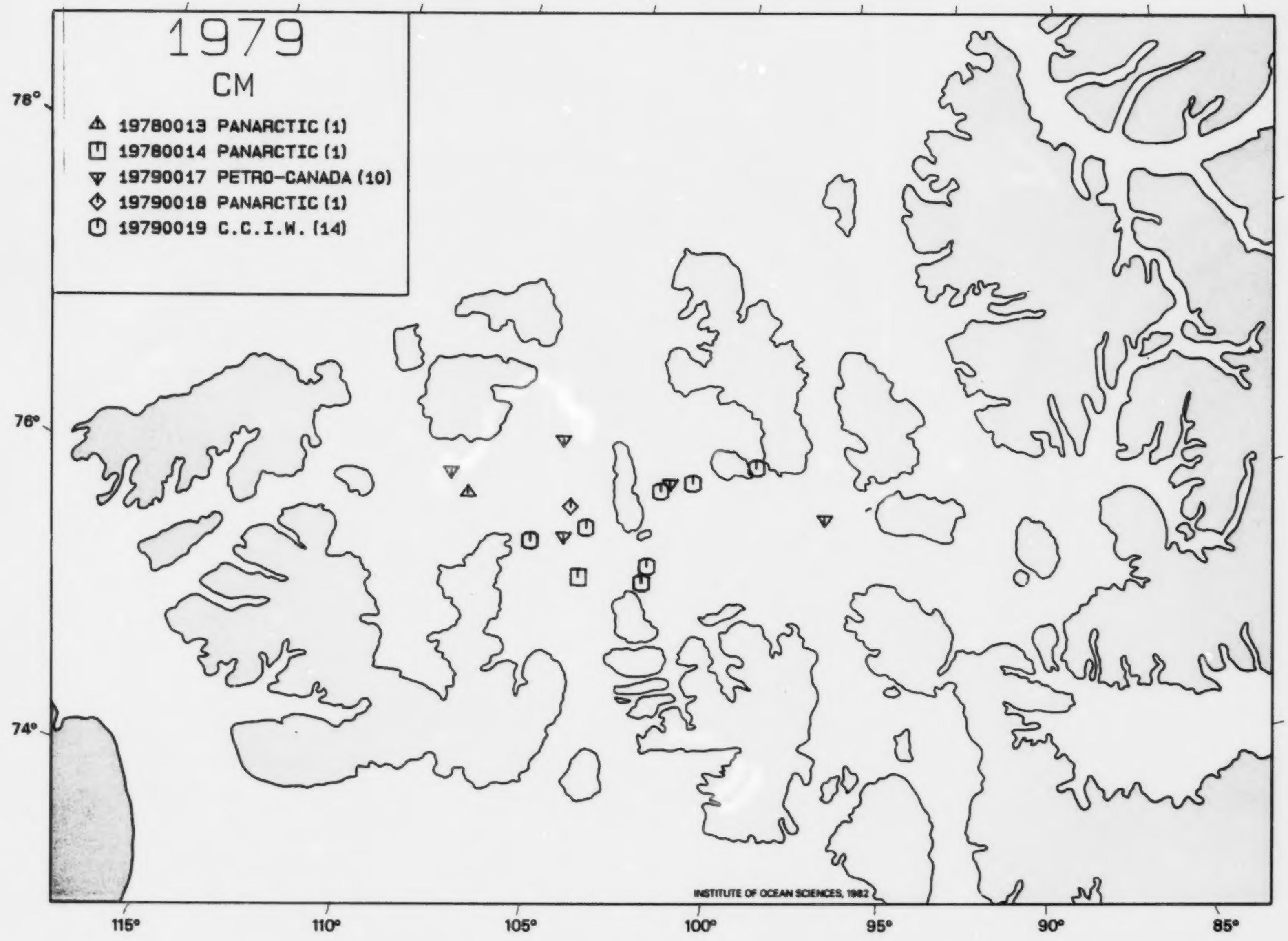
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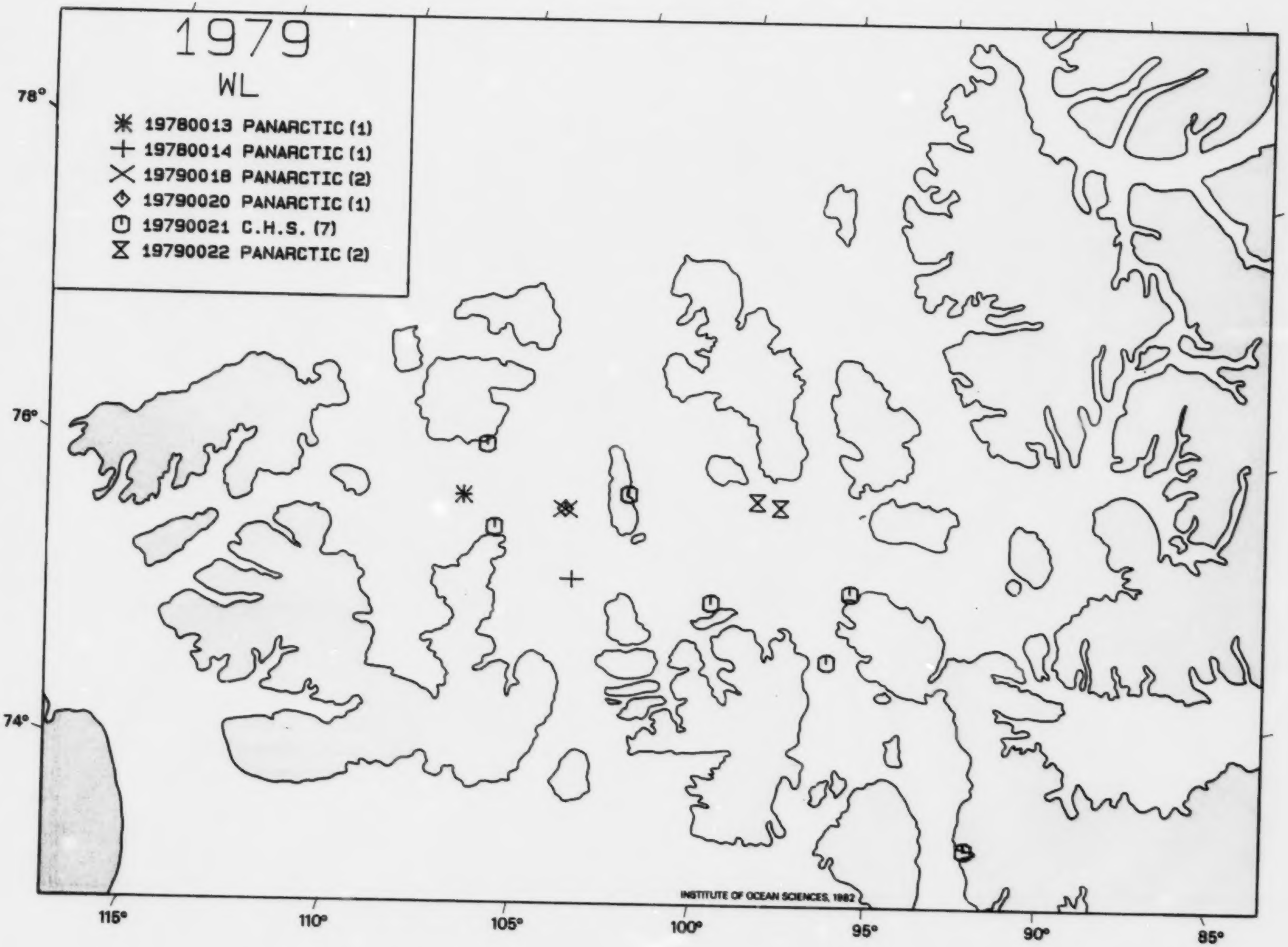
INSTITUTE OF OCEAN SCIENCES, 1982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⧗ 19790022 PANARCTIC (2)
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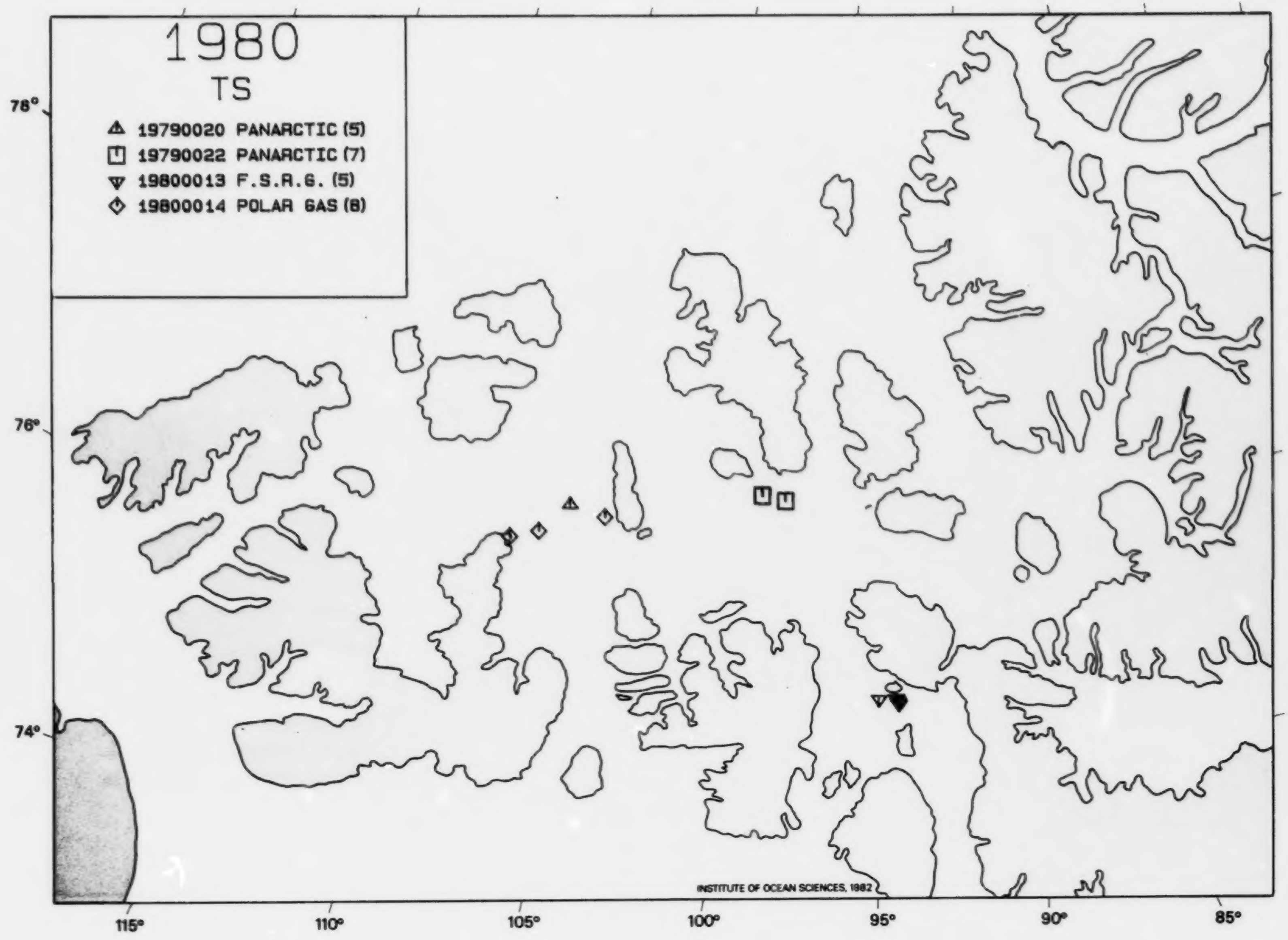
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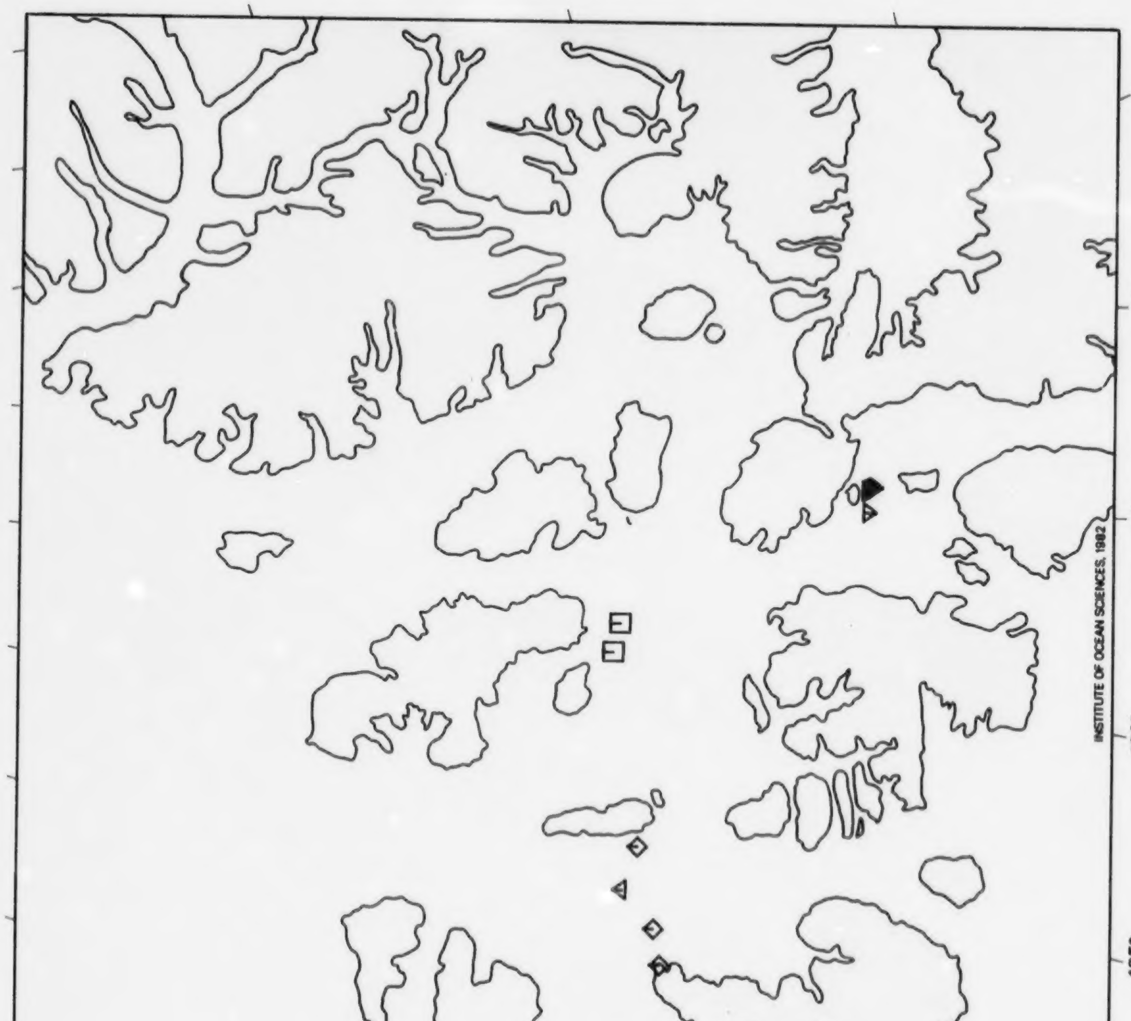
INSTITUTE OF OCEAN SCIENCES, 1982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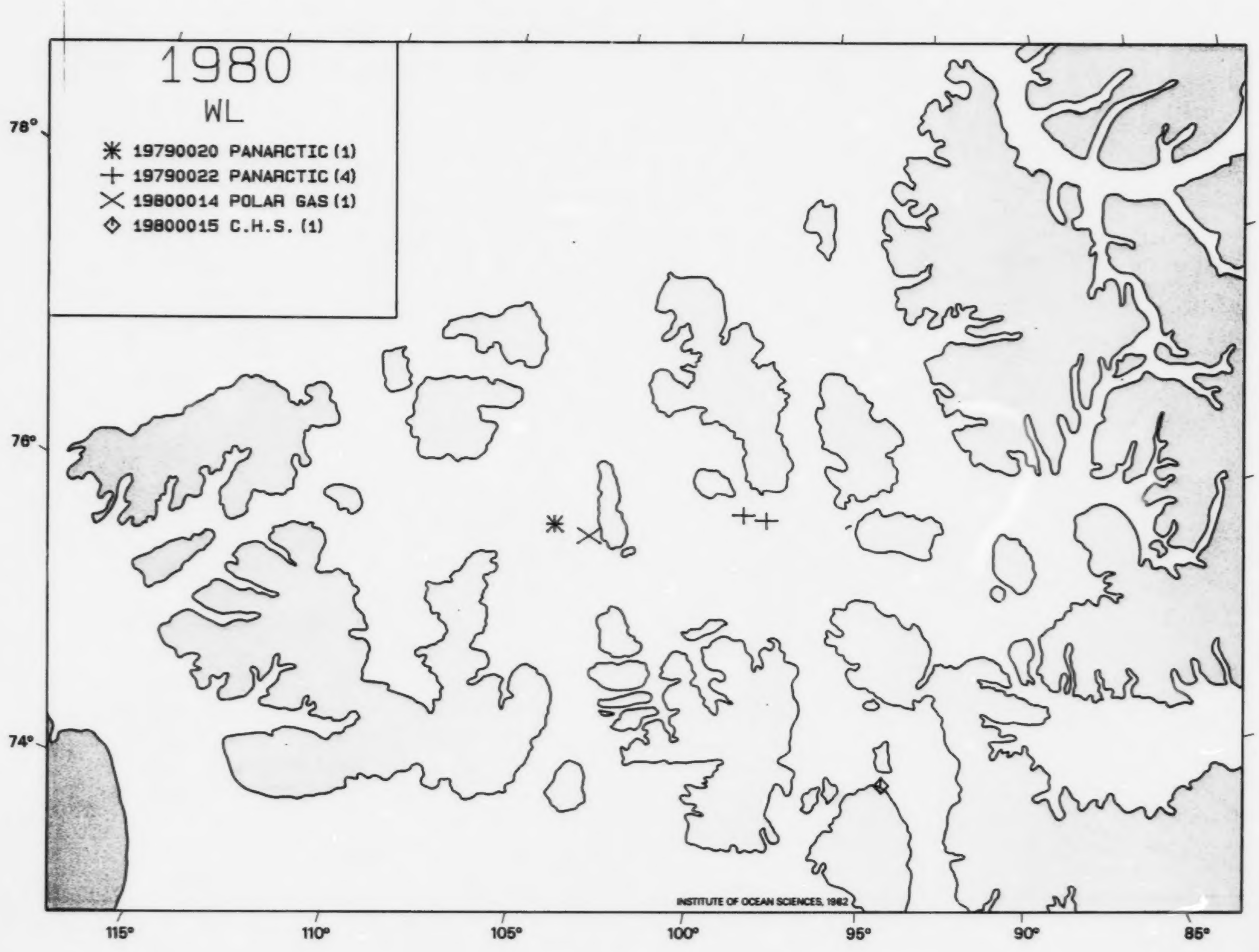
INSTITUTE OF OCEAN SCIENCES, 1982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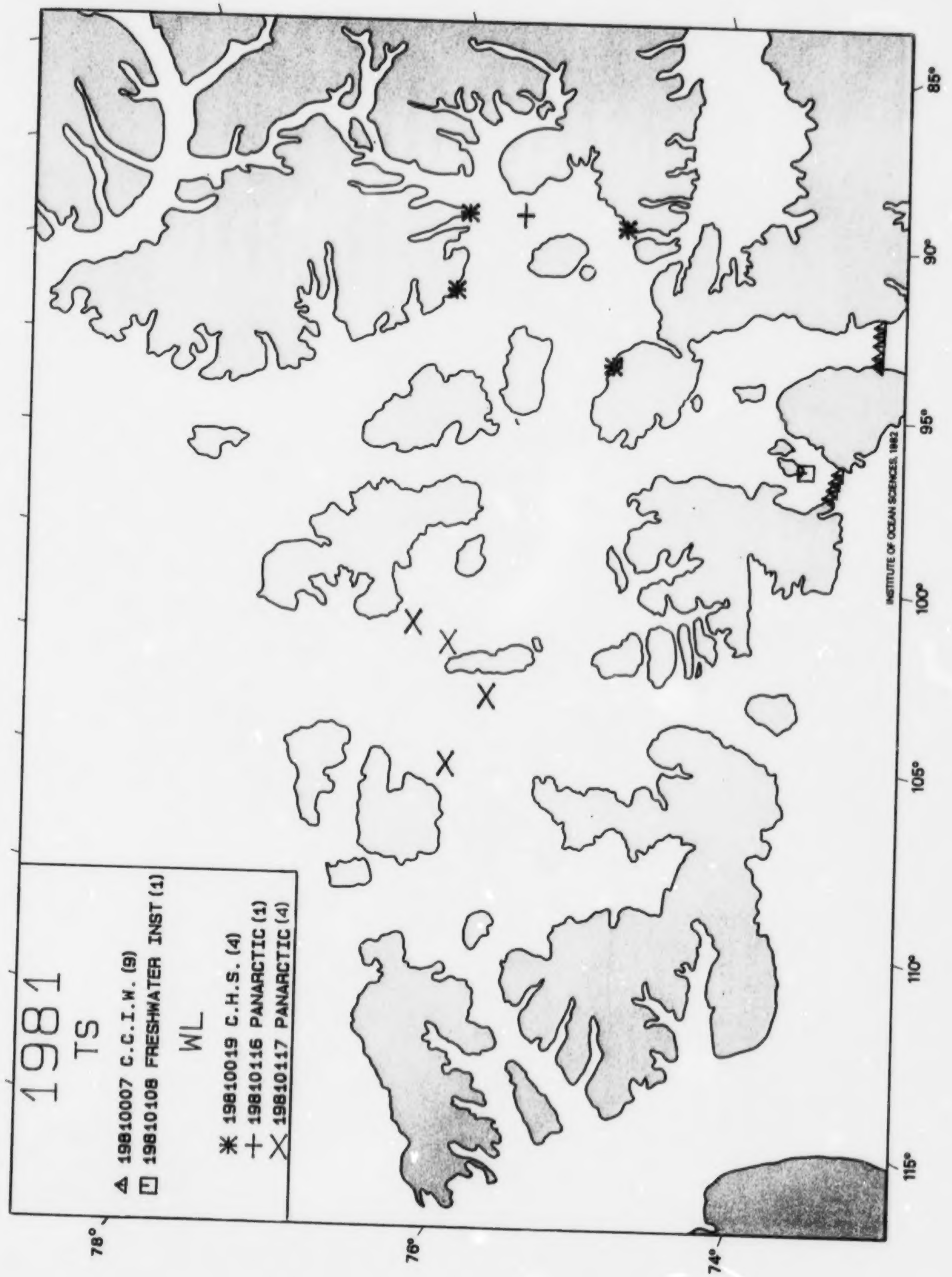
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X 19810117 PANARCTIC (4)
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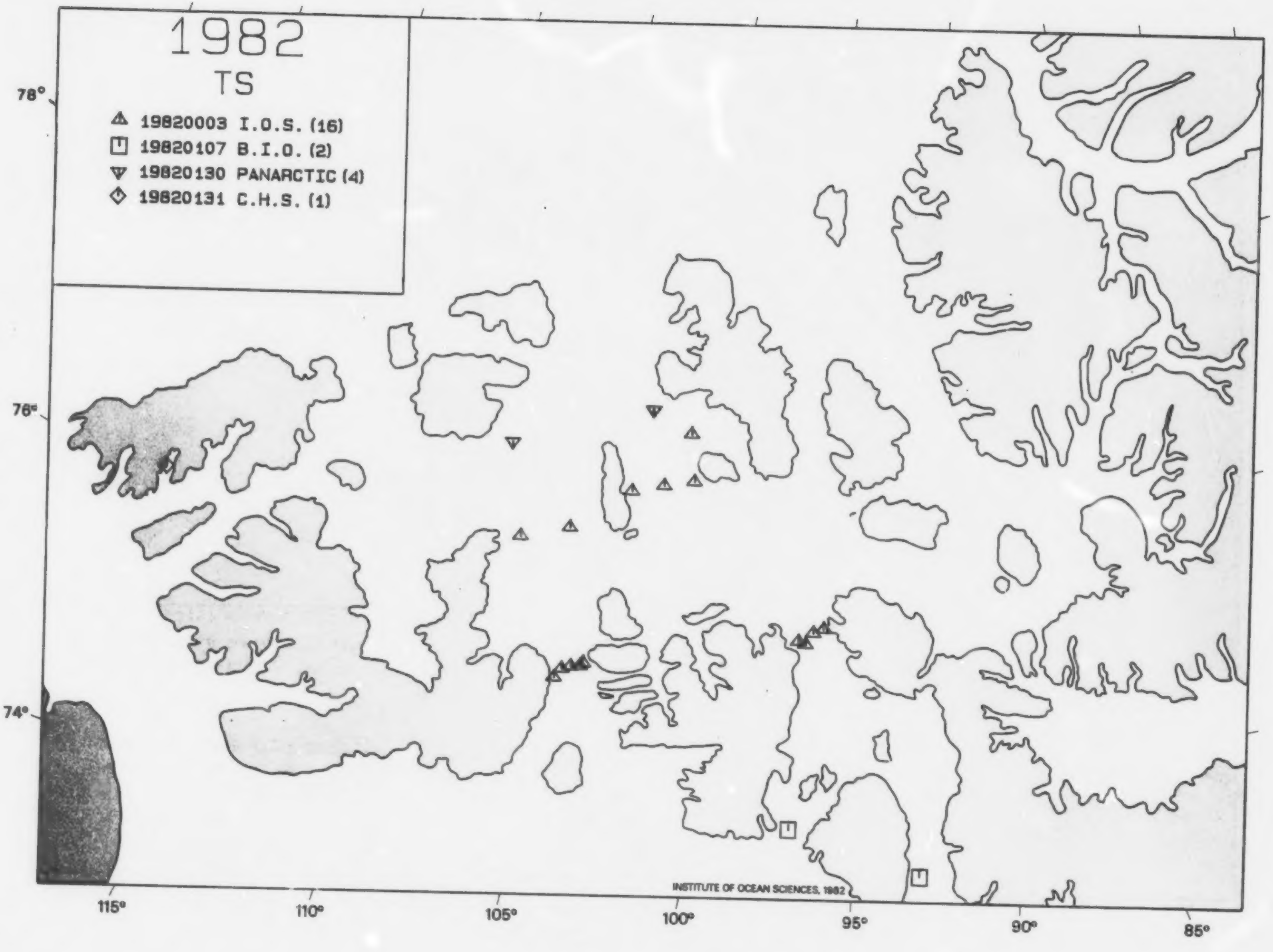
INSTITUTE OF OCEAN SCIENCES, 1982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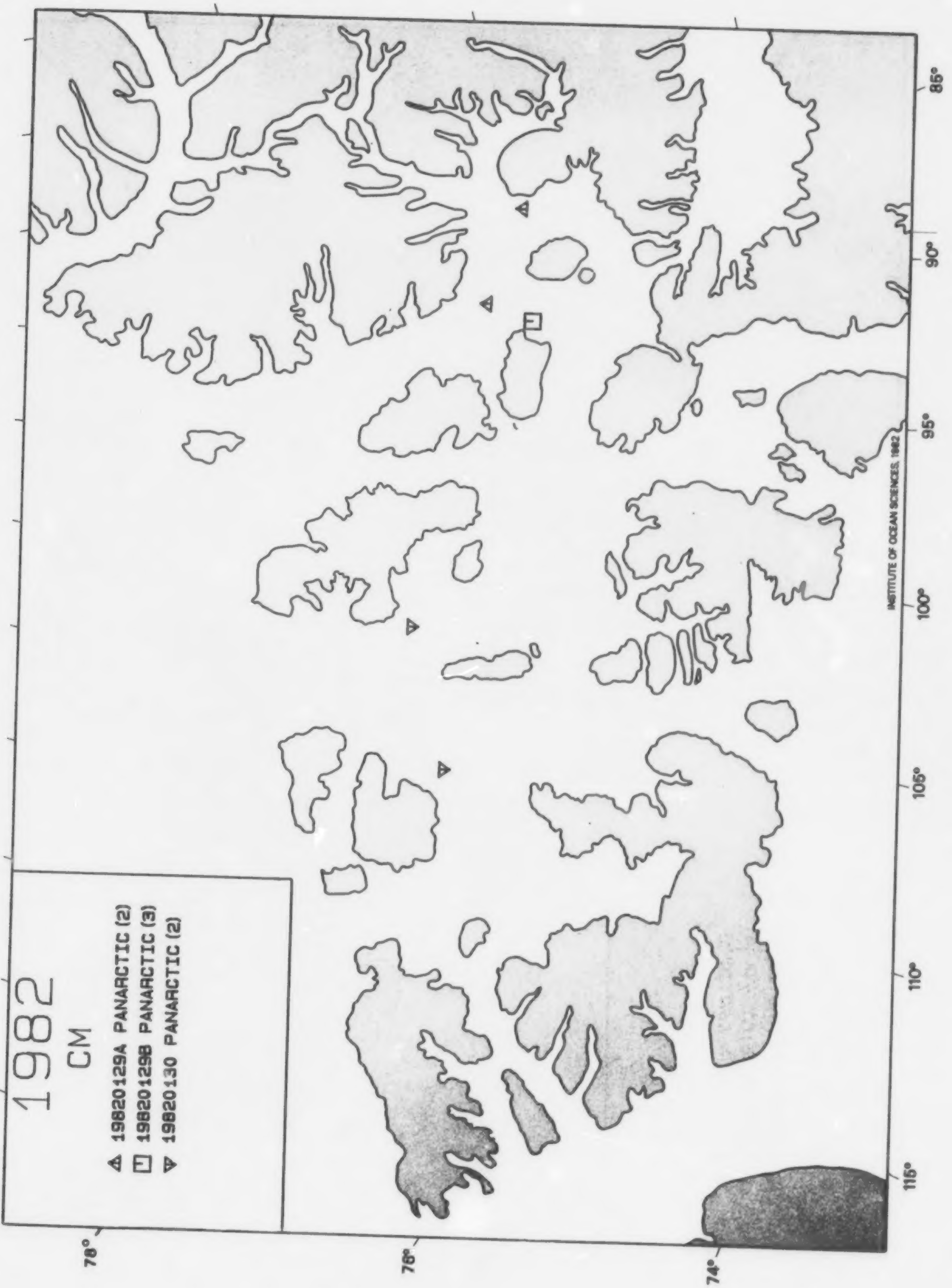
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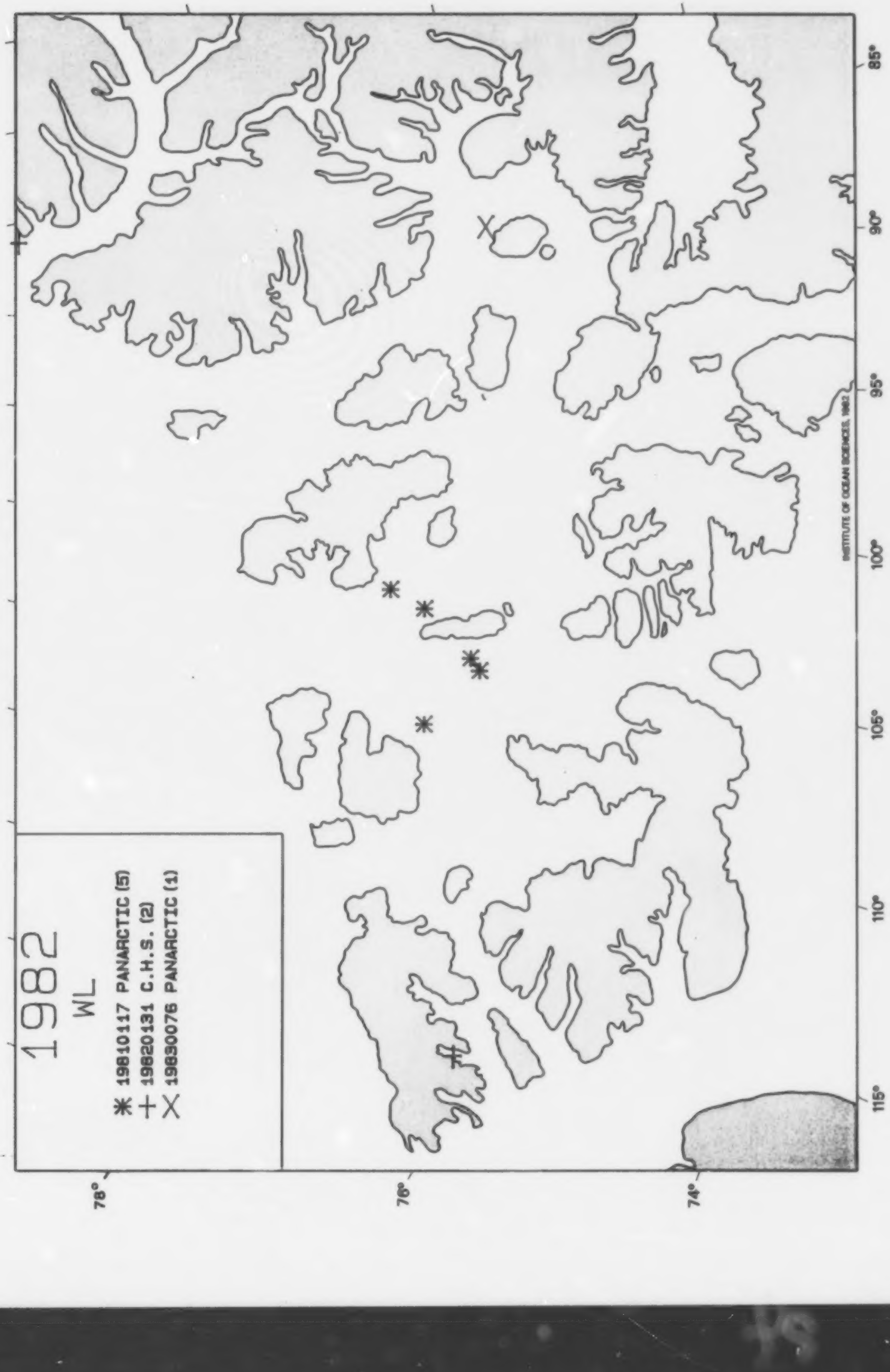
INSTITUTE OF OCEAN SCIENCES, 1982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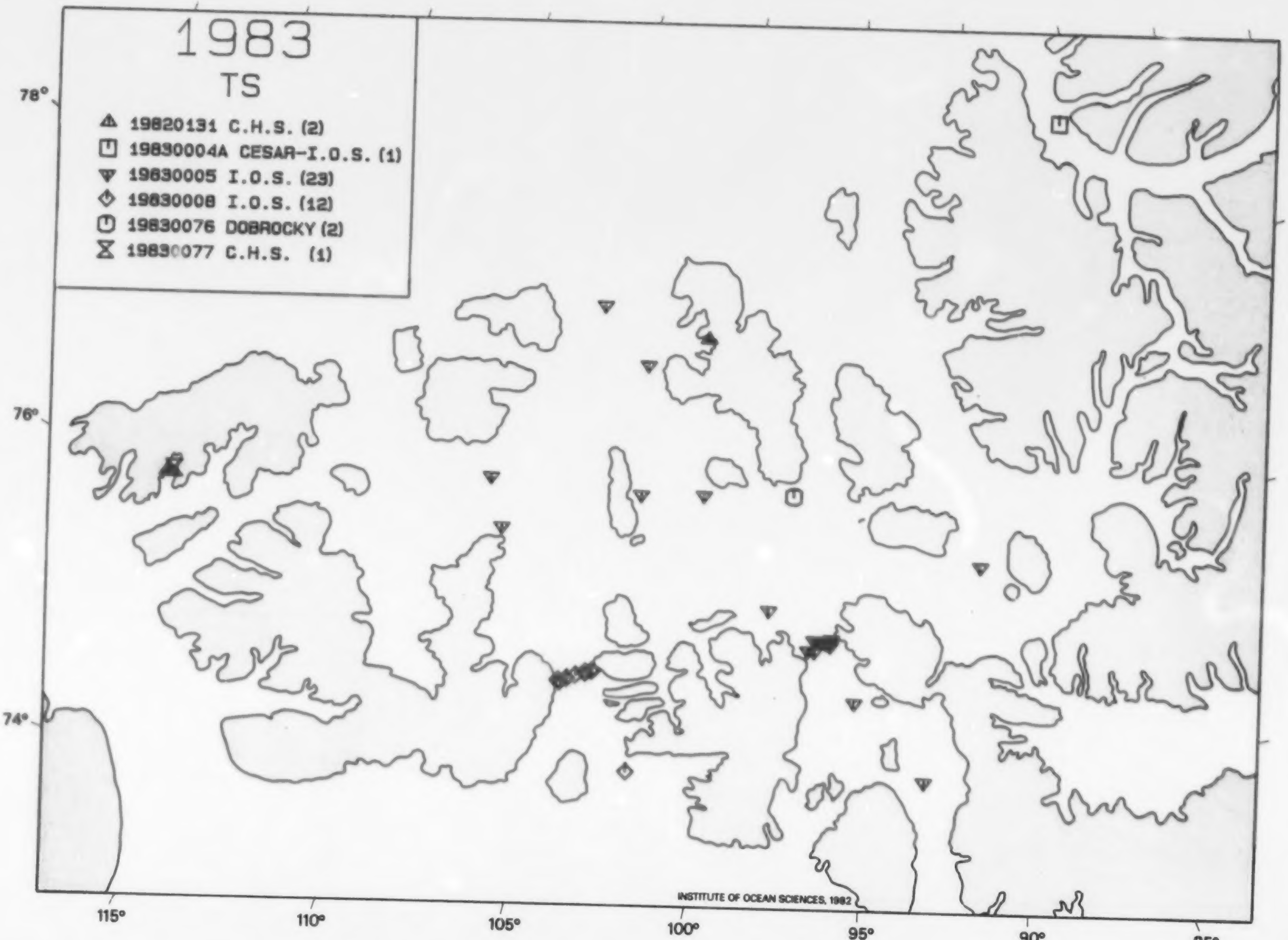
INSTITUTE OF OCEAN SCIENCES, 1982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19830076 DOBROCKY (2)
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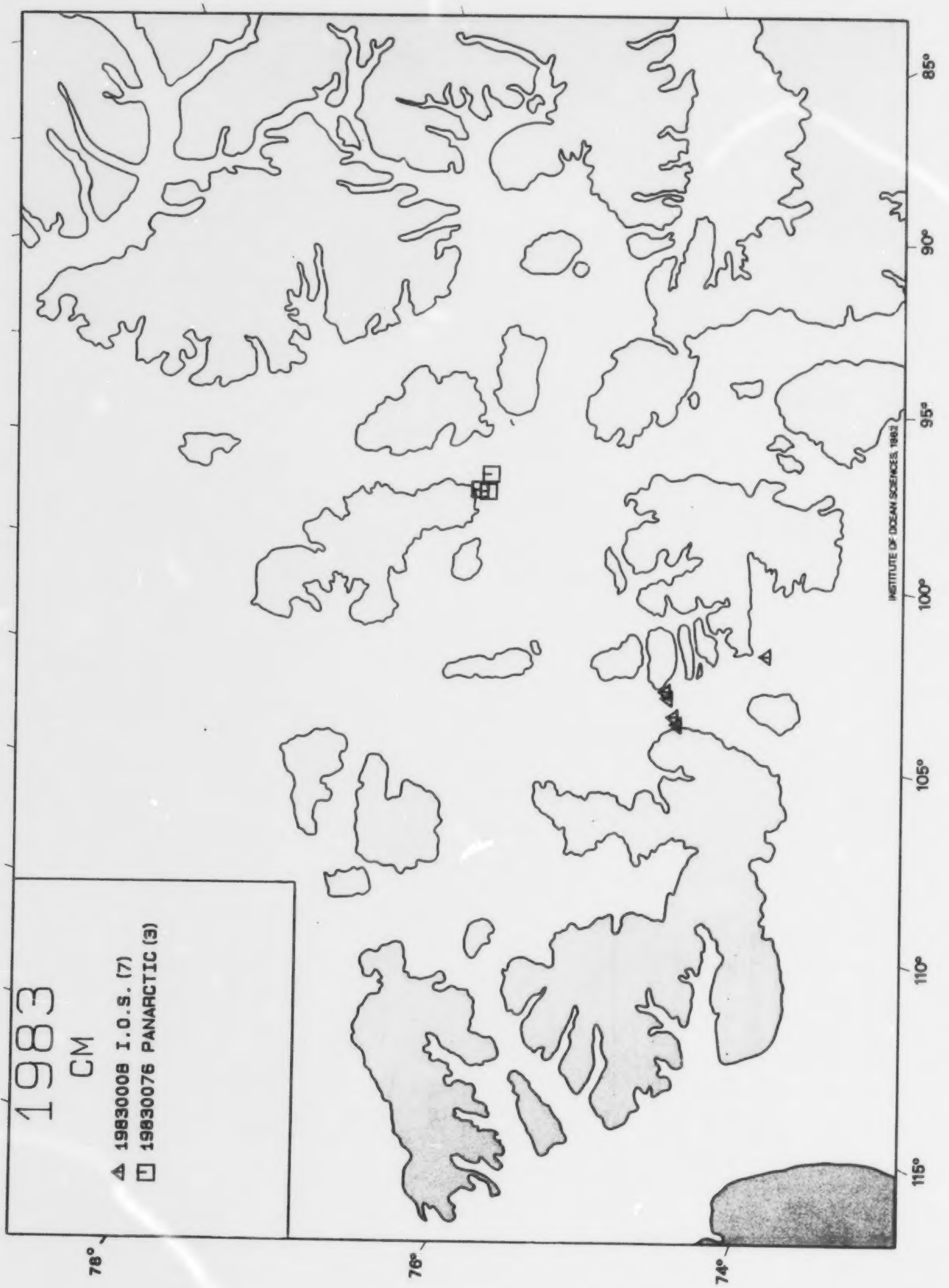
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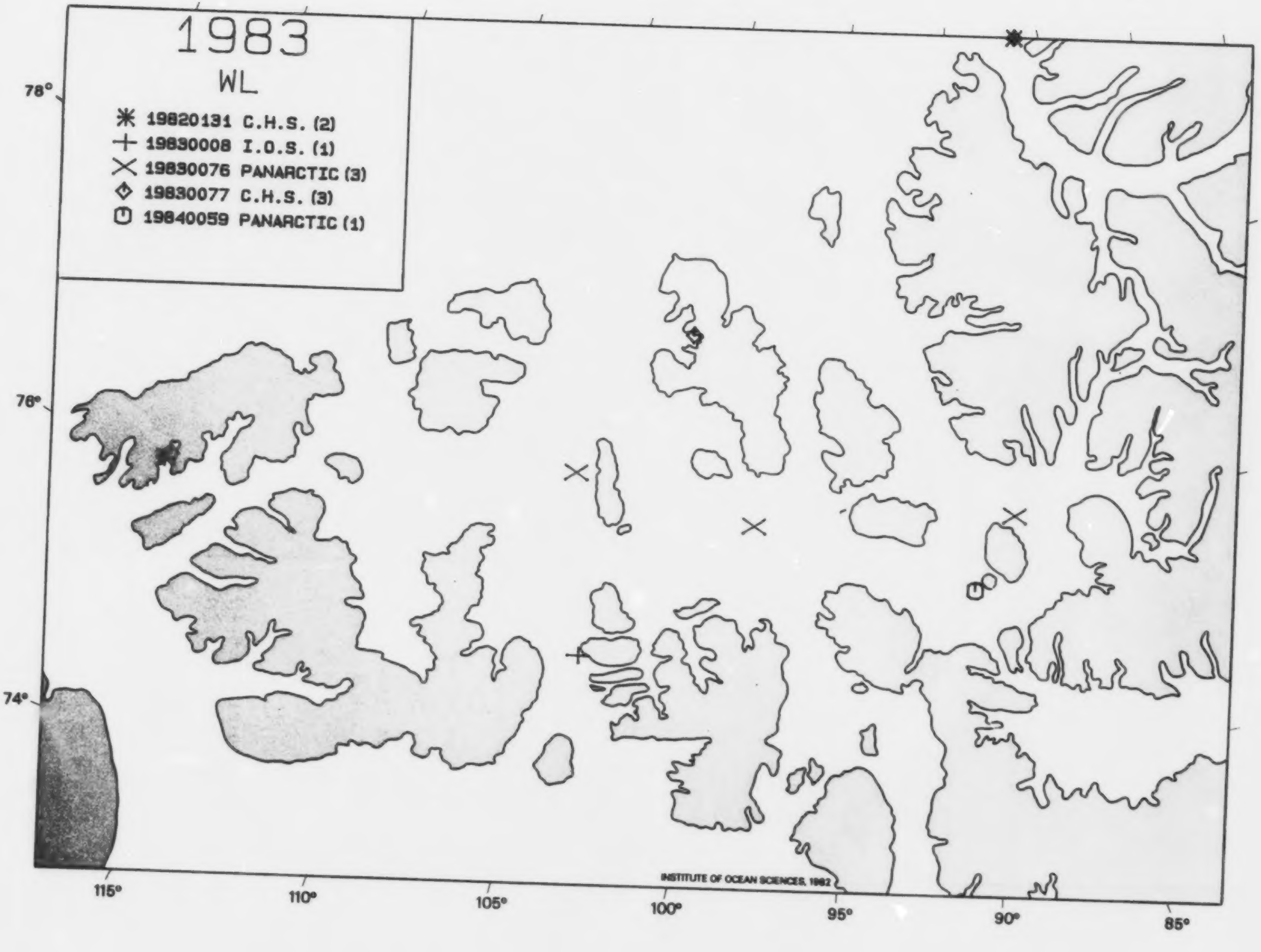
INSTITUTE OF OCEAN SCIENCES, 1982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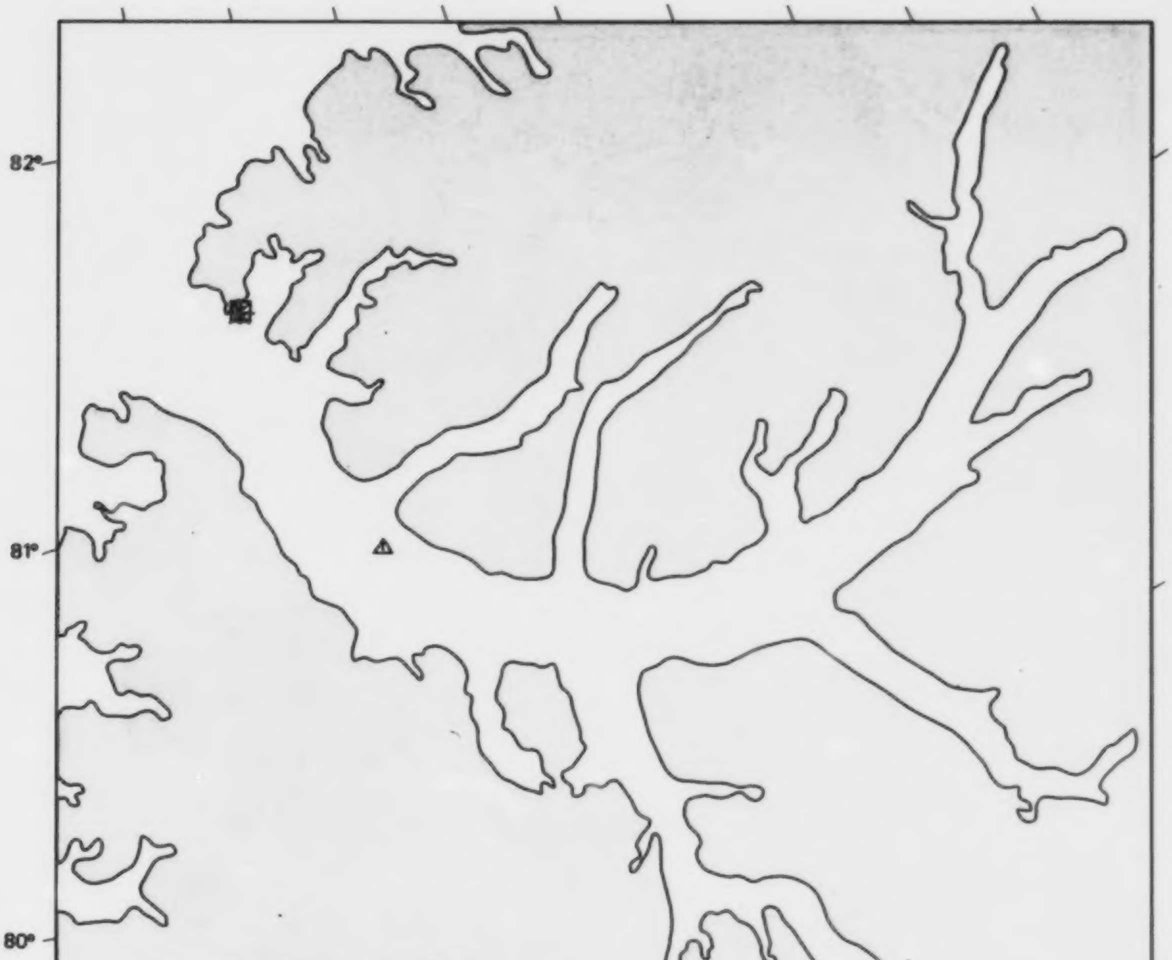
INSTITUTE OF OCEAN SCIENCES, 1982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INSTITUTE OF OCEAN SCIENCES, 1982
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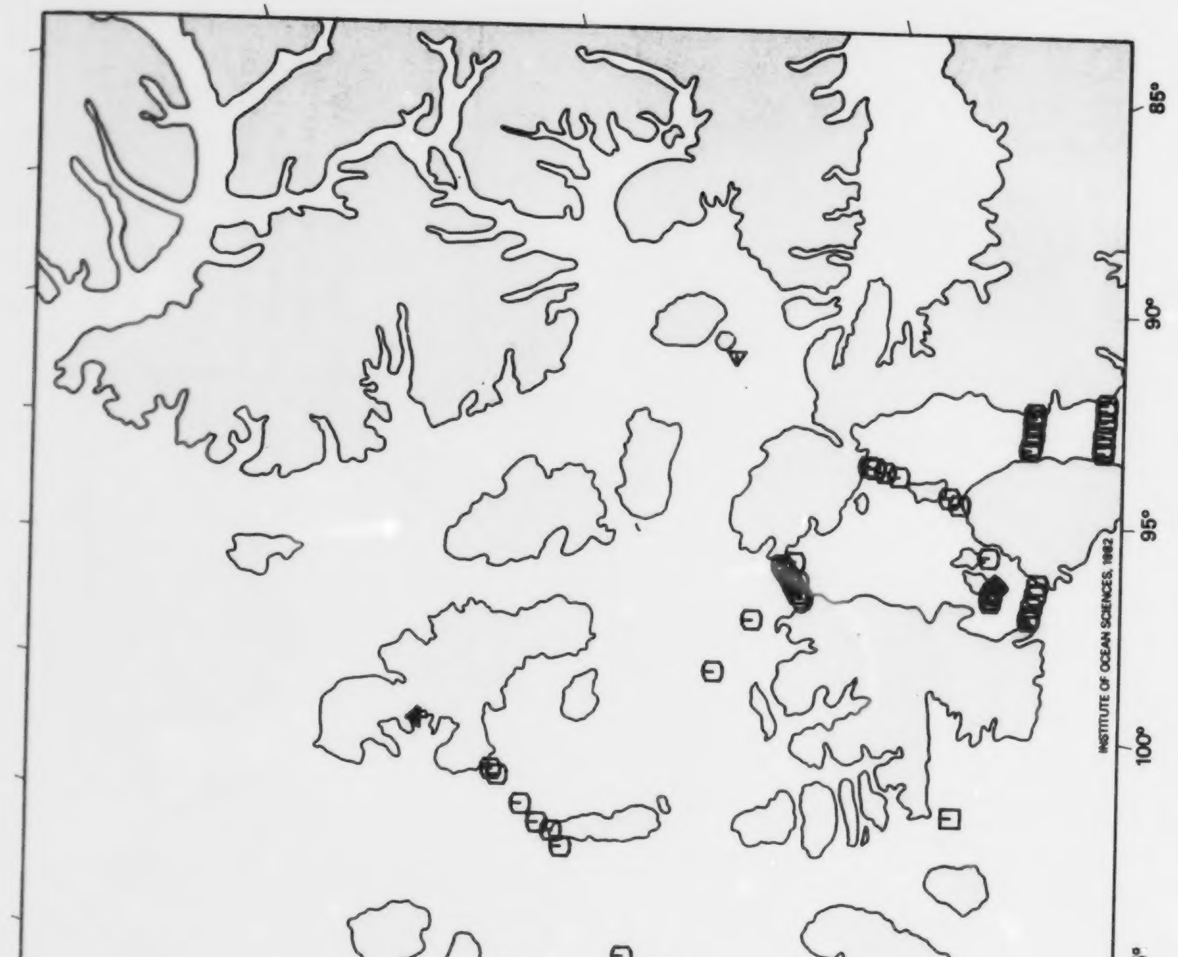
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19840049A I.O.S. (48)
19840049B I.O.S. (7)
19840059 PANARCTIC (3)
19840060 C.H.S. (3)
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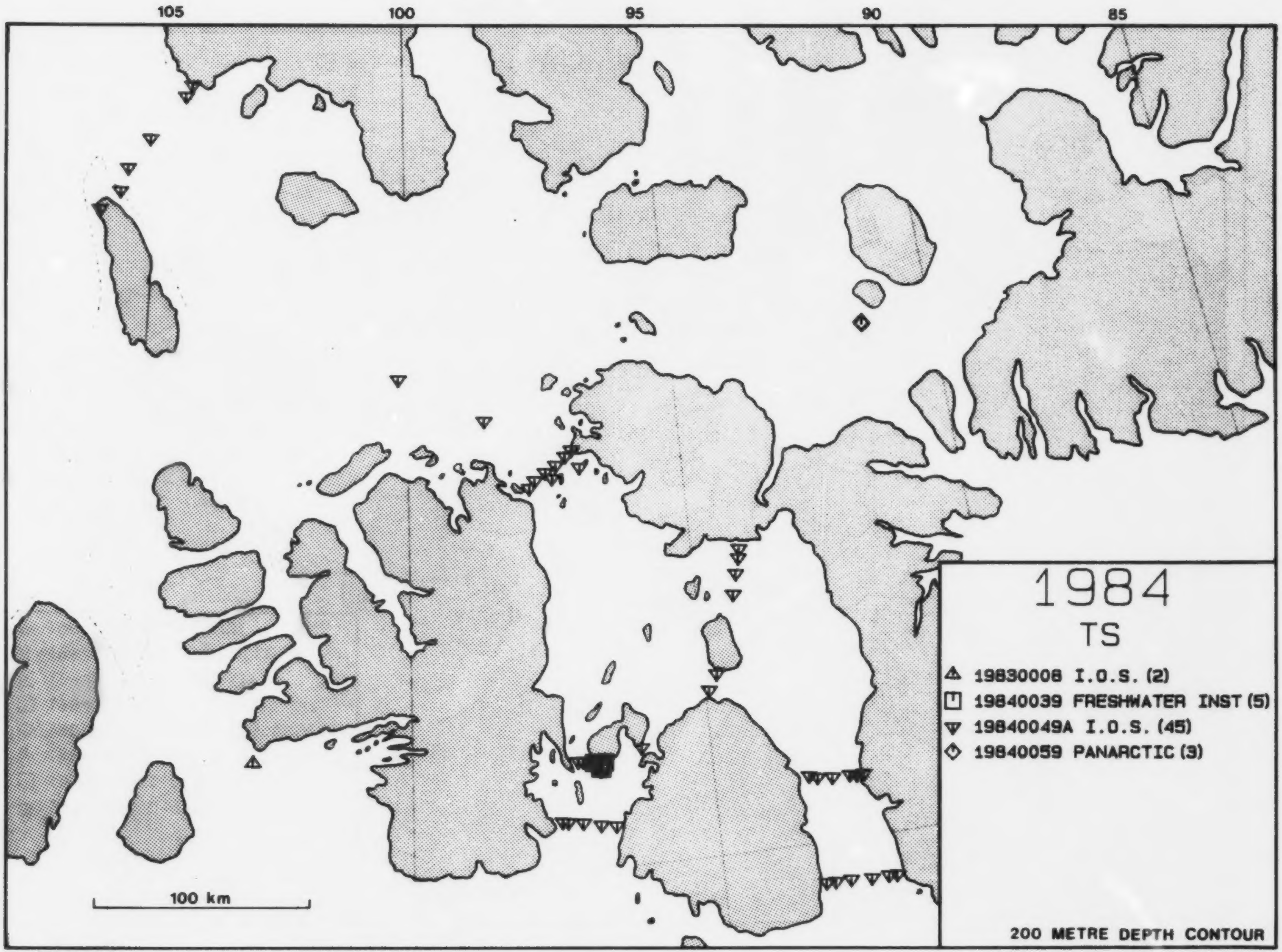
INSTITUTE OF OCEAN SCIENCES, 1982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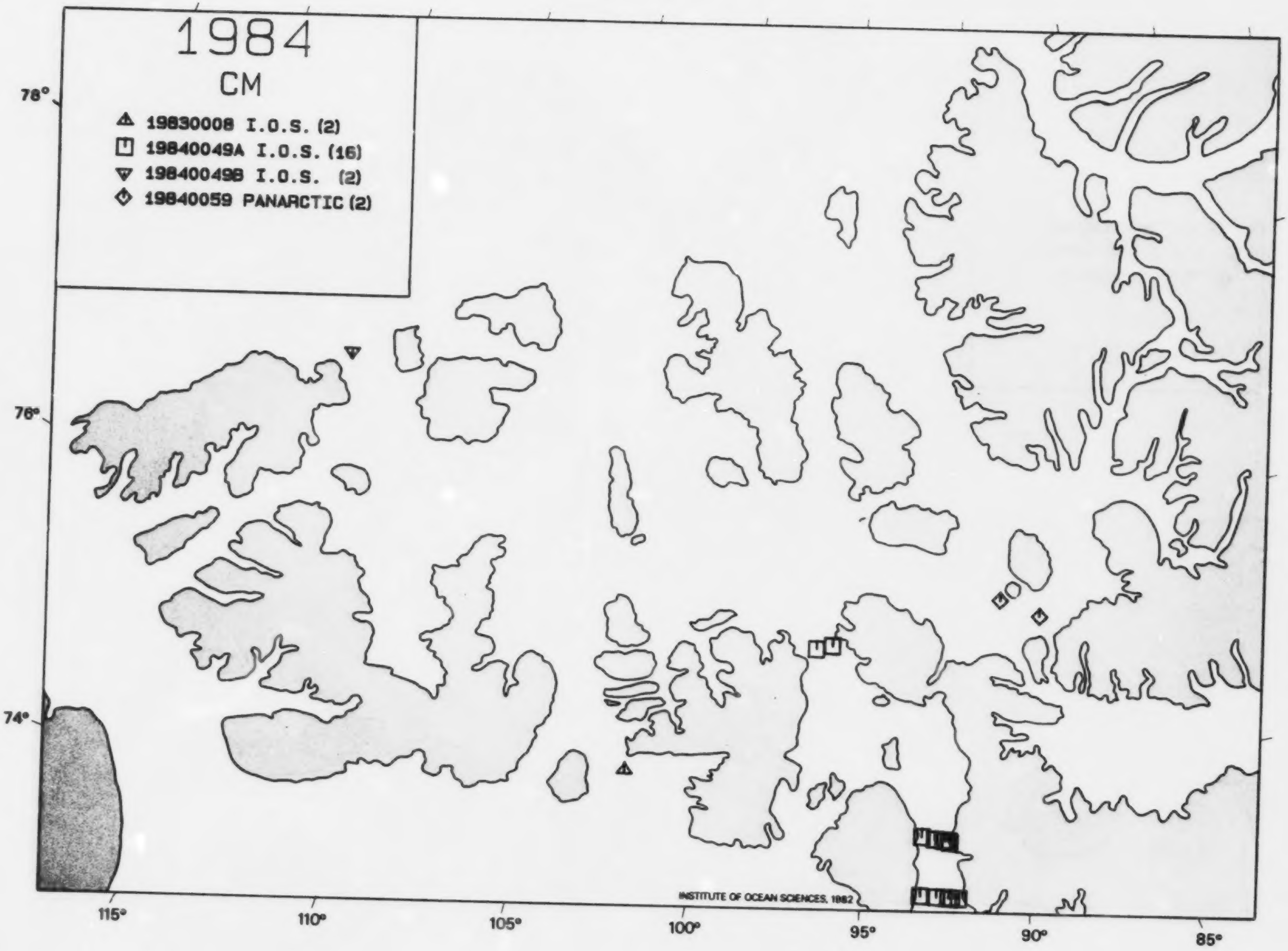
200 METRE DEPTH CONTOUR
100 km

1: 2,630,000

INSTITUTE OF OCEAN SCIENCES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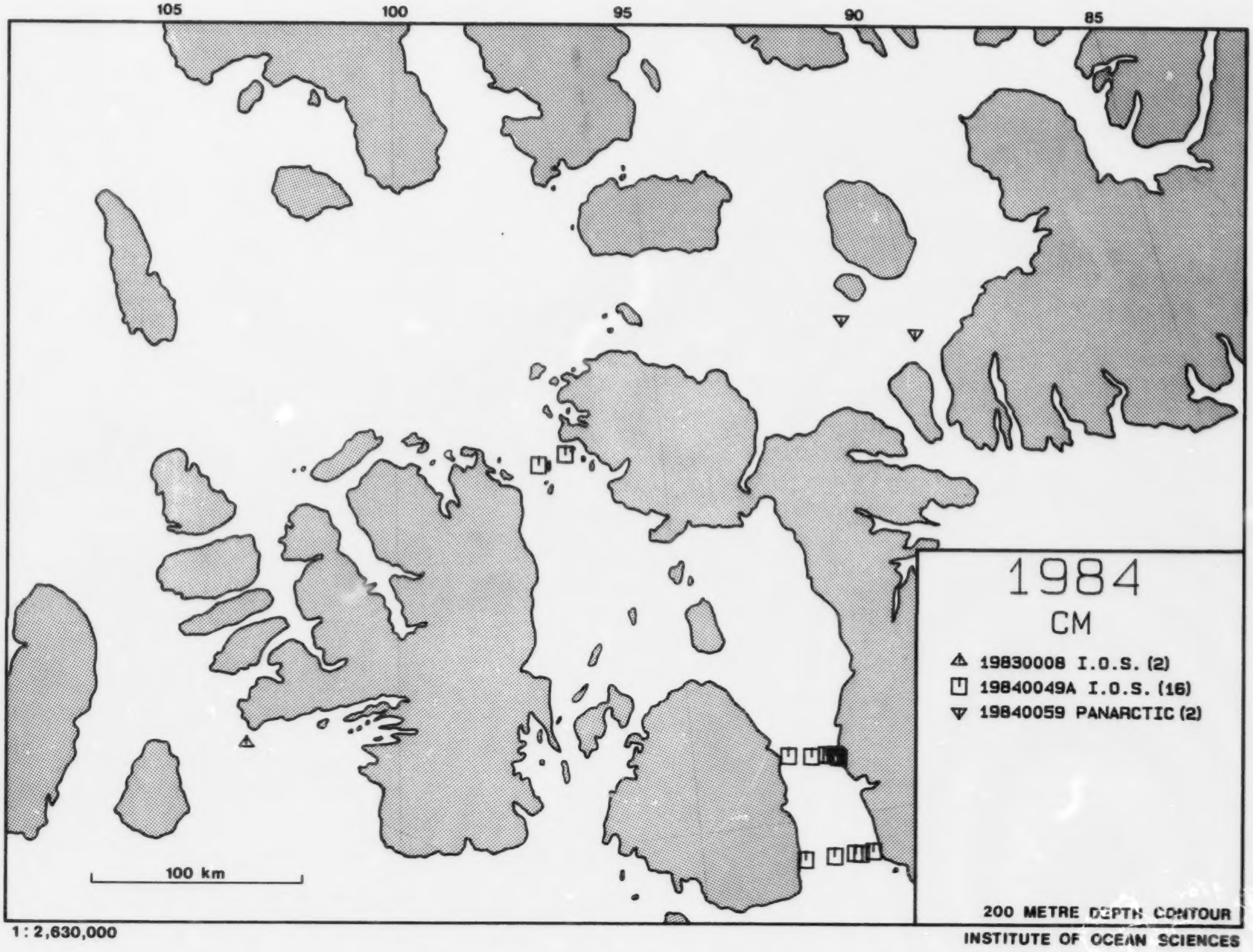
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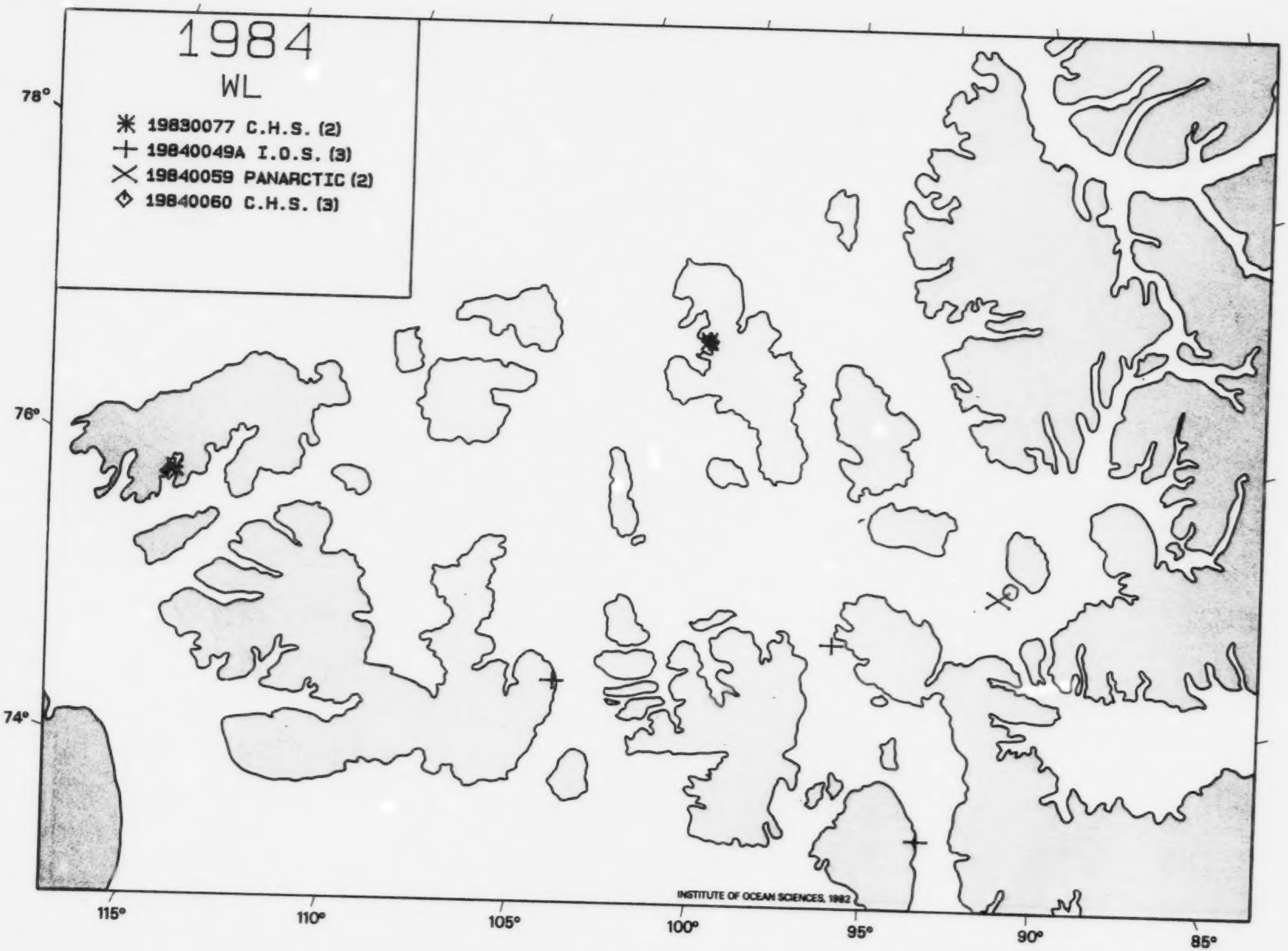
100 km
1: 2,630,000
INSTITUTE OF OCEAN SCIENCES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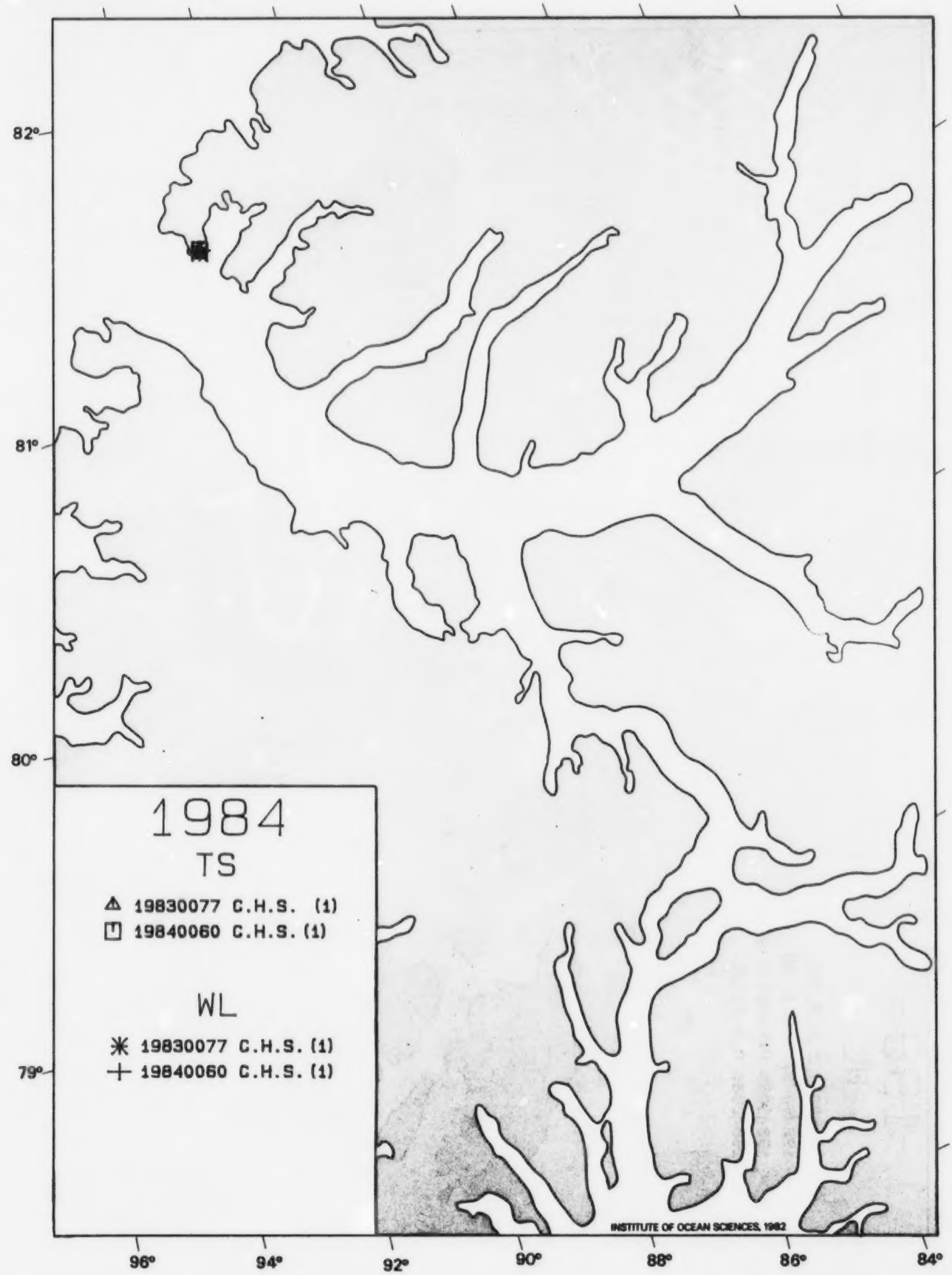
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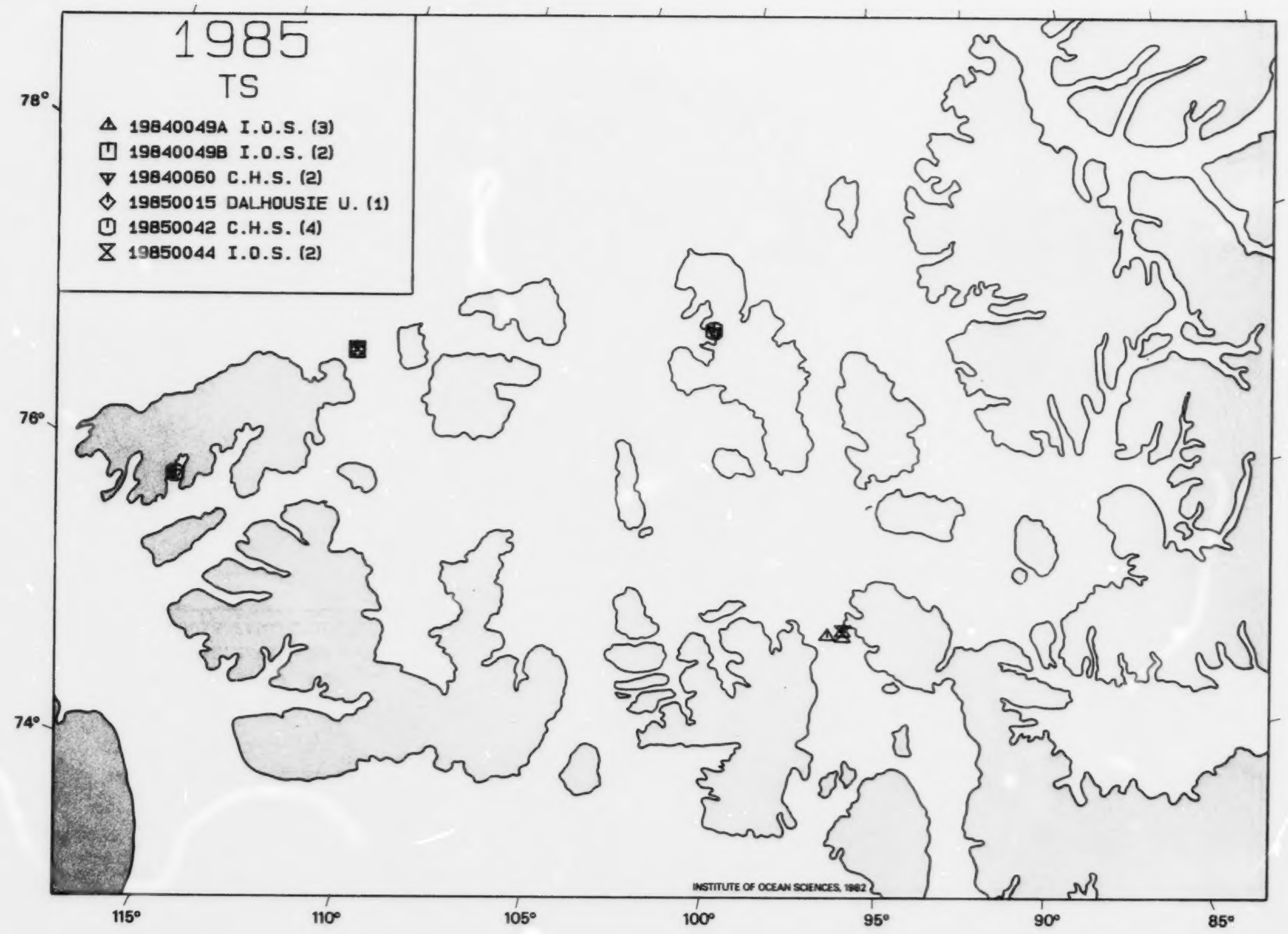
INSTITUTE OF OCEAN SCIENCES, 1982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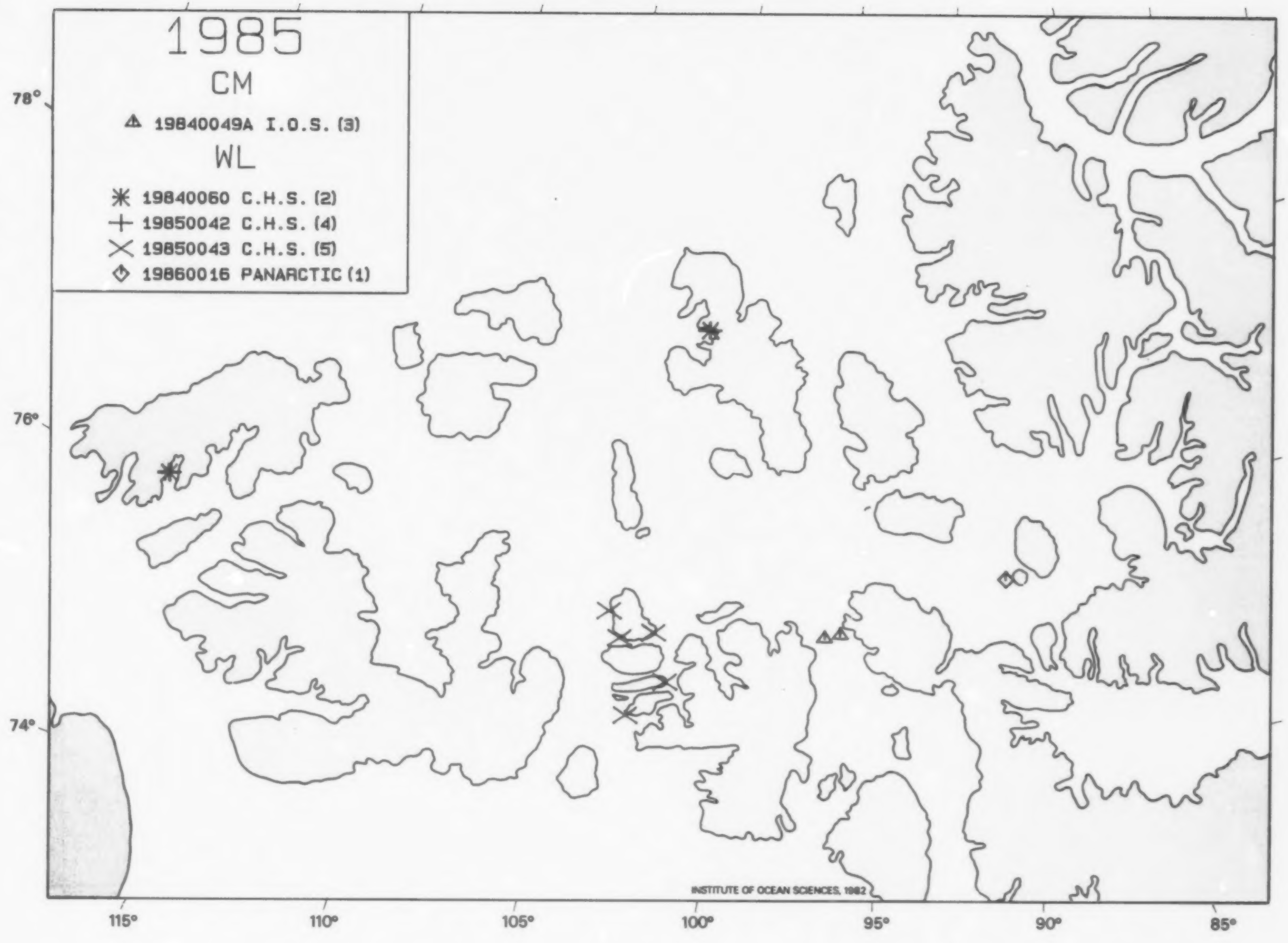
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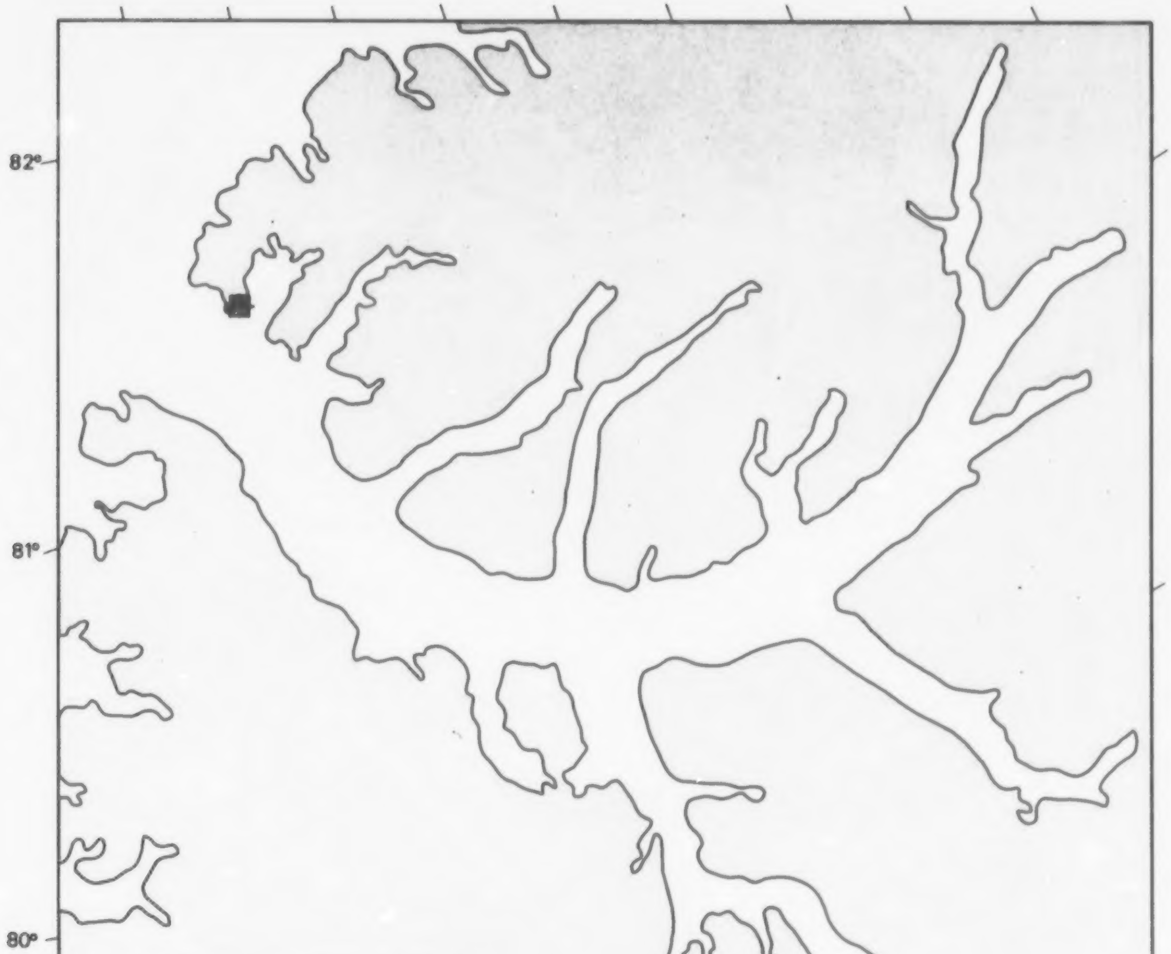
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INSTITUTE OF OCEAN SCIENCES, 1982
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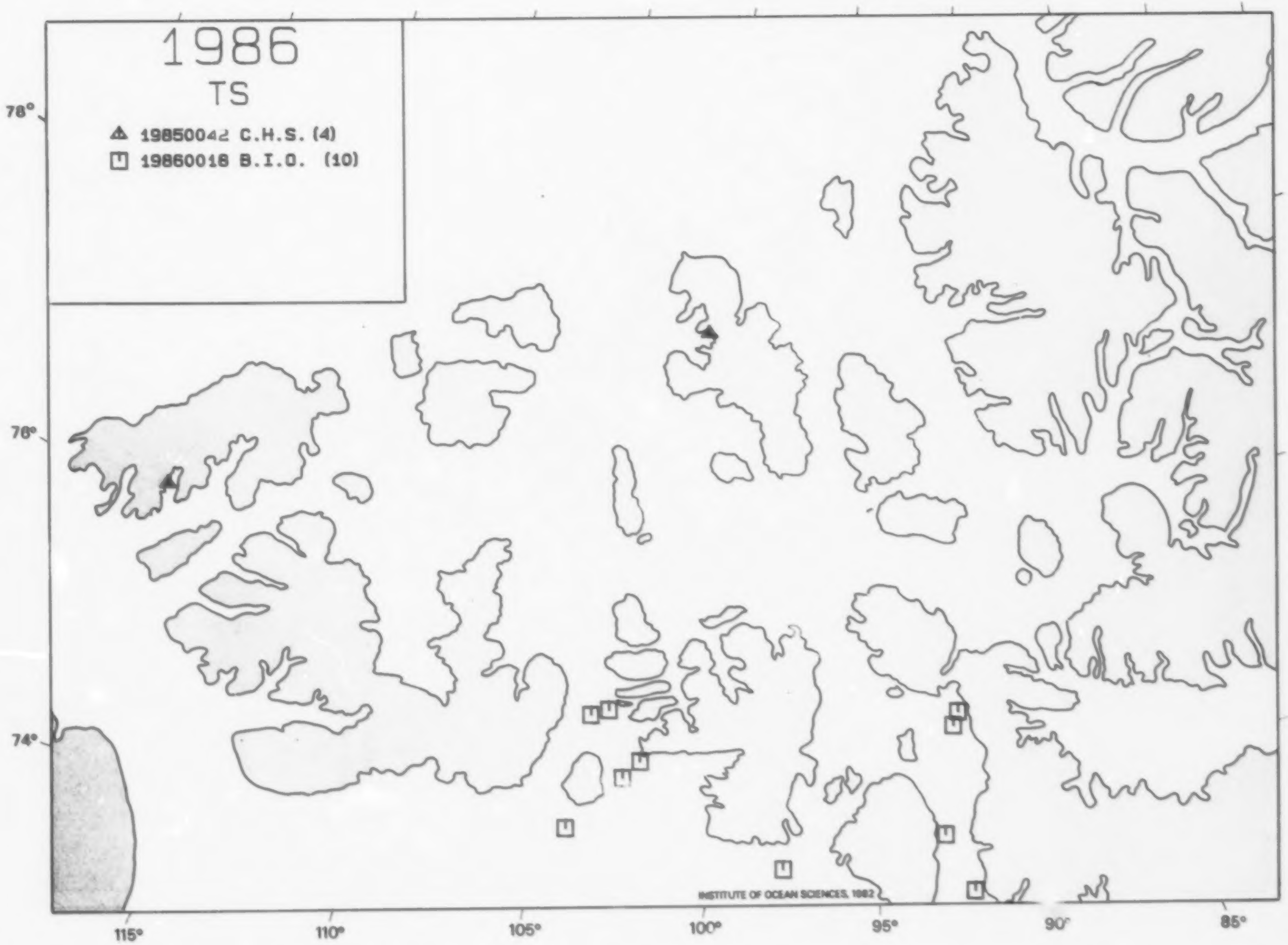
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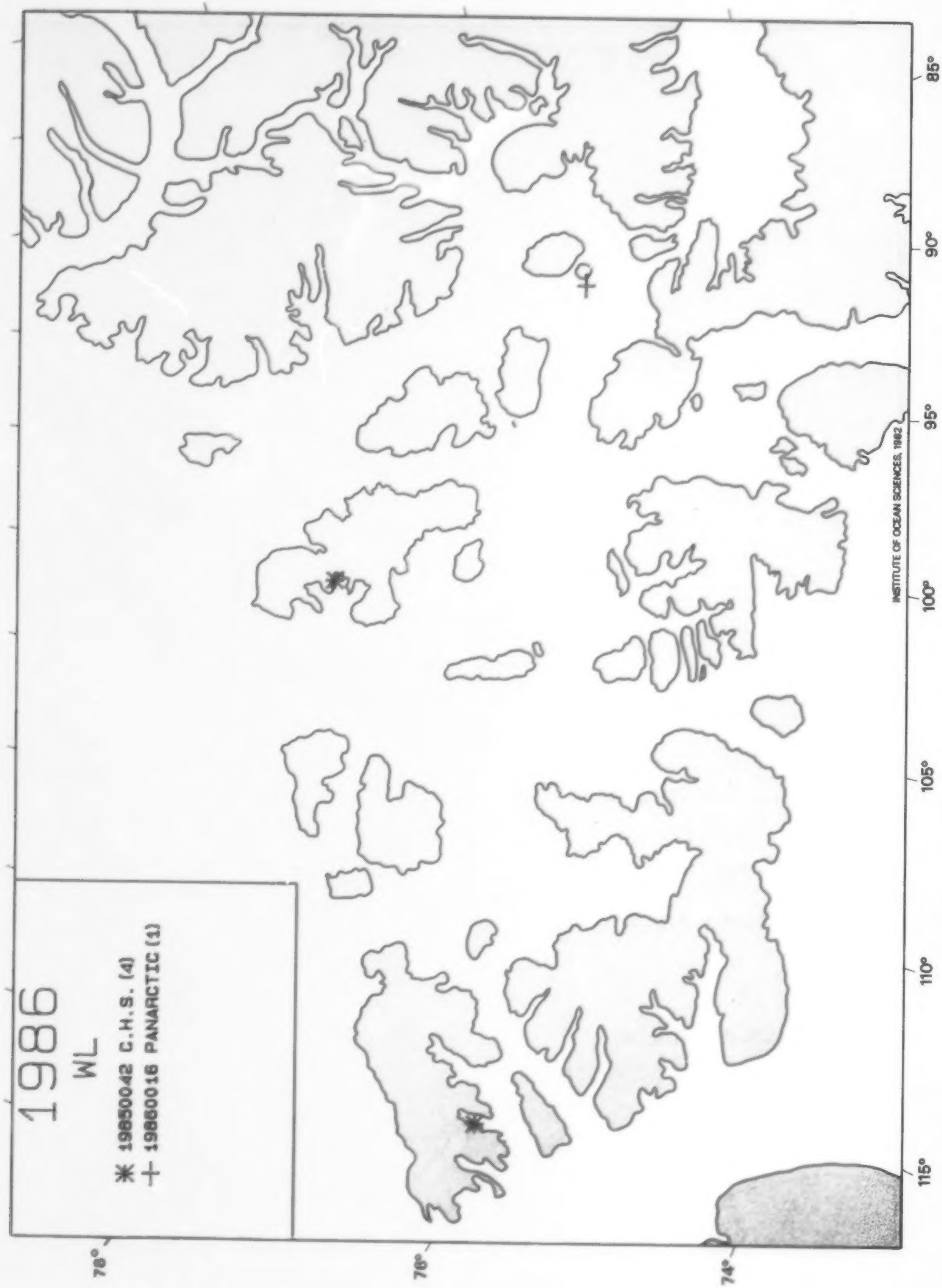
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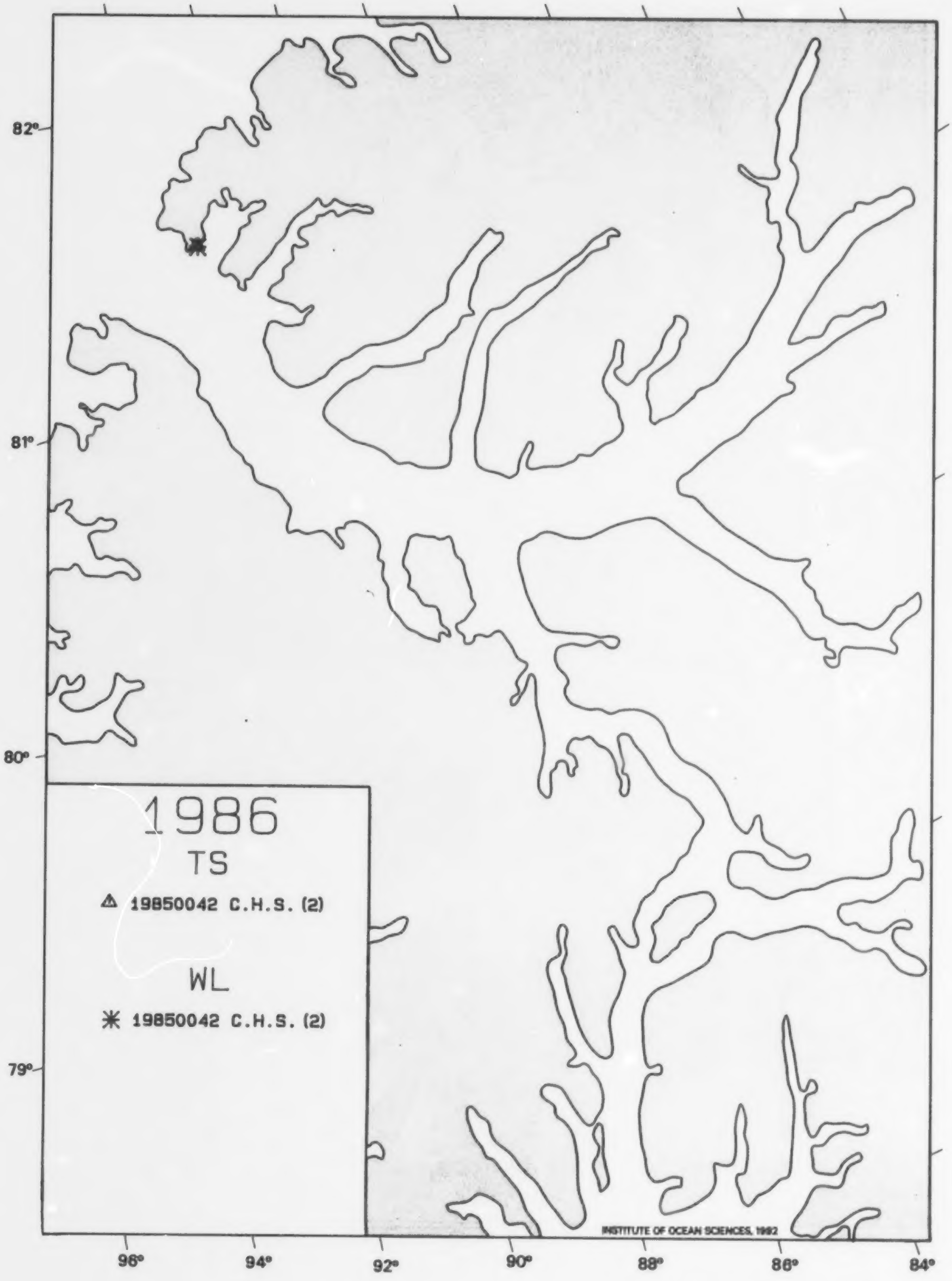
INSTITUTE OF OCEAN SCIENCES, 1982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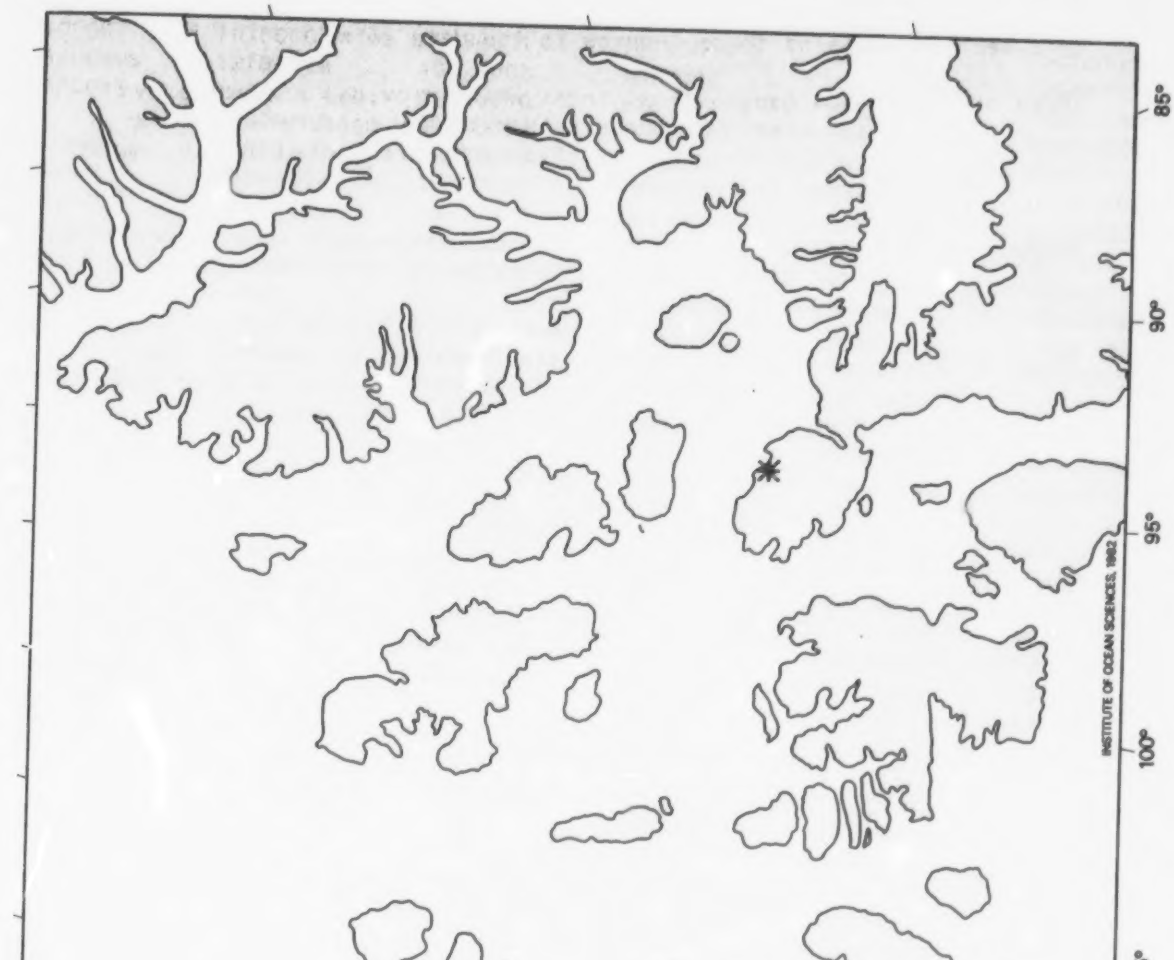
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INSTITUTE OF OCEAN SCIENCES, 1982

## 10. INDEXES

This section contains three indexes to the data sets.

| | |
|---|---|
| Index 10.1 | is a geographical index which provides a listing by sub-area. All data sets with any measurements in a particular sub-area (Figure 1) are listed by I.D. number under that sub-area. |
| Index 10.2 | classifies the data sets by measurement type, under three main categories: temperature-salinity, current meter and water level. |
| Index 10.3 | lists references for each data set by number. The data-set number appears at the left-hand side of the page, with references listed to the right. |

## 10.1 GEOGRAPHICAL INDEX

BALLANTYNE STRAIT
19600007
19840049B
19850015

BELCHER CHANNEL
18520001
19620006
19760016
19790021
19810019

BYAM MARTIN CHANNEL
18190001
19540001
19610003
19610003
19620006
19640004
19690016
19730007
19740014A
19740134
19750017
19750019
19750040
19760015
19760017
19770016
19780007
19790019
19820003
19830008
19840049A
19850043
19860018

CROZIER & PULLEN STRAIT
19510007
19740121
19770016
19770026
19770119
19780007
19780012
19810007
19810108
19820107
19840039
19840049A

D'IBERVILLE FIORD
19700018
19720023
19730015
19750039

DESBARATS STRAIT
19750018
19760015
19780014
19790019

E SABINE PENINSULA
19750017
19750019
19750023
19760019
19780010
19780016

EDINGBURGH SEA
19740018
19740118
19770023
19770033
19780011
19790017
19790019
19790021
19790022
19830076
19840049A

EUREKA SOUND
19480001
19520003
19540010
19610005
19620005B
19620006
19670002
19670005
19760018

FITZWILLIAM STRAIT
19750016
19820131
19830077
19840060
19850042

GREELY FIORD
19620006
19630010
19640008
19650005
19660010
19670002
19670005
19680008
19690014
19690015
19700017
19700018
19710015
19720023
19730013
19740025
19750039
19750138
19760018
19770019

HAZEN STRAIT
19750016
19750018
19750022
19770023
19770024
19770025
19770033
19780013
19790017
19790019
19790021
19810117
19820003
19820130
19830005
19840049A

HECLA & GRIPER BAY
19750020
19760014
19770022
19770024
19770025

LOUGHEED IS BASIN
19770033
19790017
19790018
19790019
19790020
19800014
19810117
19830076

M'CLURE STRAIT
19620006

MACLEAN STRAIT
19740018
19750018
19750021
19750022
19770033
19790017
19790019
19790021
19810117
19820003
19820130
19830005
19840049A

MASSEY SOUND
19620005B

NANSEN SOUND
19610003
19620005B
19620006
19640008
19650005
19660010
19670002
19670005
19680008
19680015
19760018
19820131
19830004A
19830077
19840060
19850042

NORWEGIAN BAY
19520003
19610003
19620006
19670002
19680001
19730007
19780011
19810019
19810116
19820129A
19820129B
19830005
19840059
19860016
19870002

PEARY CHANNEL
19600007

PENNY STRAIT
18530001
19570003
19620005A
19620006
19760016
19790021
19820003
19830005
19840049A
19850044

PR GUSTAF ADOLF SEA
19490001
19540010
19590004
19600007
19610009
19640005
19750022
19770033
19790017
19790019
19820131
19830005
19830077
19840049A
19840060
19850042

QUEENS CHANNEL
19570003
19610003
19620013
19730007
19800013
19840039

WELLINGTON CHANNEL
19460001
19540001
19570003
19600005
19610003
19610004
19620006
19670002
19680001
19720011
19730006
19730008
19760010
19780012
19790021
19800015
19810007
19820107
19830005
19840049A
19860018

## 10.2 MEASUREMENT TYPE INDEX

### Temperature-Salinity

19460001
19480001
19520003
19540001
19570003
19600005
19600007
19610003
19610004
19610005
19610009
19620005A
19620005B
19620006
19630010
19640004
19640005
19640008
19650005
19660010
19670002
19670005
19680001
19680015
19690014
19690015
19700017
19700018
19710015
19720011
19720023
19730006
19730008
19730013
19730015
19740014A
19740018
19740025
19740118
19740121
19740134
19750016
19750017
19750018
19750019
19750020
19750021
19750022
19750023
19750039
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19780007
19780010
19780011
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19780013
19780014
19790018
19790019
19790020
19790022
19800013
19800014
19810007
19810108
19820003
19820107
19820130
19820131
19830004A
19830005
19830008
19830076
19830077
19840039
19840049A
19840049B
19840059
19840060
19850015
19850042
19850044
19860018

### Current-Meter

19610009
19670002
19680015
19730006
19730008
19740018
19740025
19740134
19750016
19750017
19750018
19750019
19750020
19750021
19750022
19750039
19760014
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19760016
19760017
19770022
19770023
19770024
19770025
19770026
19770033
19780007
19780010
19780011
19780012
19780013
19780014
19790017
19790018
19790019
19790020
19790022
19800013
19800014
19820129A
19820129B
19820130
19830008
19830076
19840049A
19840049B
19840059
19820130
19820131
19830008

### Water-Level

18190001
18520001
18530001
19490001
19510007
19520003
19540010
19590004
19620013
19630010
19640008
19680008
19690015
19690016
19700017
19700018
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19730015
19740025
19750017
19750020
19750021
19750039
19750040
19760014
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19760018
19760019
19770019
19770022
19770024
19770025
19770026
19780010
19780013
19780014
19780016
19790018
19790020
19790021
19790022
19800014
19800015
19810019
19810116
19810117
19830076
19830077
1940049A
19840059
19840060
19850042
19850043
19870002

## 10.3 INDEX OF REFERENCES BY DATA-SET NUMBER

This section lists references for each data set by number. The data set number appears at the left hand side of the page, with references listed to the right. Also indicated is whether the reference is a main or primary one (Y), or else a later reference which uses or further discusses the data (N).

| DATASET | PRIMARY | REFERENCE AND/OR MEDS, NODC ID NUMBER |
|---|---|---|
| 18190001 | Y | Harris, R.A., 1911. Arctic tides. U.S. Government printing office. 55 p. |
| 18190001 | Y | Parry, W.E., 1821. Journal of a Voyage for the Discovery of the Northwest Passage. 2nd ed. John Murray, London. 18520001 Y Anon., undated. Accounts and Papers, Arctic expeditions, 1854-55. Vol. 35: 118-120. |
| 18520001 | Y | Harris, R.A., 1911. Arctic tides. U.S. Government printing office. 55 p. |
| 18530001 | Y | Anon., 1875. Phil. Trans. Royal Soc., London. Vol. 165: 318-320. |
| 18530001 | Y | Harris, R.A., 1911. Arctic tides. U.S. Government printing office. 55 p. |
| 19460001 | Y | Metcalfe, W.G., 1949. Oceanographic program of the U.S. Navy Task Force '80. Arctic operation summer 1948. WHOI Ref. No. 49-4. 67 p. |
| 19480001 | Y | Metcalfe, W.G., 1949. Oceanographic program of the U.S. Navy Task Force 80. Arctic operation summer 1948. WHOI Ref. No. 49-4. 67 p. |
| 19480001 | Y | NODC #31EW50376 |
| 19490001 | Y | MEDS WL-ID 06910 |
| 19510007 | Y | MEDS WL-ID 06955 |
| 19520003 | Y | MEDS #180052040, NODC #31ED50368 |
| 19520003 | Y | U.S. Navy Hydrographic Office, 1954. Oceanographic observations, Arctic waters, USS Edisto and USS Atka. H.O. Pub. 618-A, U.S. Navy Hydrographic Office, Washington, D.C. 316 p. |
| 19540001 | Y | Bailey, W.B., 1955. Oceanographic reconnaissance in the Canadian archipelago (1954). Fish. Res. Bd. Canada, MSS Rept. Biol. Sta., No. 603. 145 p. |
| 19540001 | N | Bailey, W.B., 1957. Oceanographic features of the Canadian archipelago. J. Fish. Res. Bd. Canada, 14(5): 731-769. |
| 19540001 | Y | MEDS #180354189, #180054040 |

| DATASET | PRIMARY | REFERENCE AND/OR MEDS, NODC ID NUMBER |
|---|---|---|
| 19540010 | Y | MEDS WL-ID 06640, 06910 |
| 19570003 | N | Collin, A.E., 1962. On the oceanography of Lancaster Sound. Ph.D. Thesis. McGill University, Montreal. 204 p. |
| 19570003 | Y | MEDS #180357244, #180057040 |
| 19590004 | Y | MEDS WL-ID 06910 |
| 19600005 | Y | Canadian Oceanographic Data Centre, 1964. Data record - eastern Arctic, 1960. 1964 Data Record Series No. 18. Ottawa. 204 p. plus illustrations. |
| 19600005 | Y | MEDS #181060340, #180060001 |
| 19600007 | N | Collin, A.E., 1961. Oceanographic activities of the Polar Continental Shelf Project. J. Fish. Res. Bd. Canada, 18(2): 253-258. |
| 19600007 | Y | MEDS #181160338, #180060040 |
| 19610003 | Y | Canadian Oceanographic Data Centre, 1966a. Arctic 1961. 1966 Data Record Series No. 12. Ottawa. 322 p. |
| 19610003 | Y | MEDS #180761344, #180061003, #180061072 |
| 19610003 | N | Barber, F.G. and A. Huyer, 1971. On the water of the Canadian Arctic Archipelago, an atlas presentation of 1961 and 1962 data. Man. Rep. Ser. # 21, Mar. Sci. Br., Energy, Mines & Res., Ottawa, 76p. |
| 19610004 | Y | Canadian Oceanographic Data Centre, 1966a. Arctic 1961. 1966 Data Record Series No. 12. Ottawa. 322 p. |
| 19610004 | Y | MEDS #181061341, #180061001, #180061072 |
| 19610005 | Y | MEDS #180161339 |
| 19610009 | Y | Herlinveaux, R.H., 1961. Data record of oceanographic observations made in Pacific Naval Laboratory underwater sound studies, 1961. Fish. Res. Bd. Canada. Manuscript Report Series No. 108. Ottawa. 85 p. |
| 19610009 | Y | MEDS #180961763 |
| 19620005A | Y | MEDS #180462363, #180062004 |
| 19620005A | Y | Hunter, J.G. and S.T. Leach, 1983. Hydrographic data collected during fisheries activities of the Arctic Biological Station, 1960 to 1979. Can. Data Rep. Fish. Aquat. Sci. 414. 97p. |
| 19620005B | Y | Canadian Oceanographic Data Centre, 1963. Five Arctic Surveys. Data Record Series No. 4. Ottawa. 90 p. |

| DATASET | PRIMARY | REFERENCE AND/OR MEDS, NODC ID NUMBER |
|---|---|---|
| 19620005B | Y | Hunter, J.G. and S.T. Leach, 1983. Hydrographic data collected during fisheries activities of the Arctic Biological Station, 1960 to 1979. Can. Data Rep. Fish. Aquat. Sci. 414, 97p. |
| 19620005B | N | MEDS #180462364, #180062004 |
| 19620006 | N | Barber, F.G. and A. Huyer, 1971. On the water of the Canadian Arctic archipelago, an atlas presentation of 1961 and 1962 data. Manuscript Report Series No. 21, Marine Sciences Branch, Department of Energy, Mines and Resources, Ottawa. 76 p. |
| 19620006 | Y | Canadian Oceanographic Data Centre, 1966b. Arctic, Hudson Bay and Hudson Strait. Data Record Series No. 4. Ottawa. 247 p. |
| 19620006 | Y | MEDS #181062359, #180062086 |
| 19620013 | Y | MEDS WL-ID 06765 |
| 19630010 | Y | Canadian Oceanographic Data Centre, 1969. Operation Tanquary, Ellesmere Island, N.W.T., 1963-1966. 1969 Data Record Series No. 13. Ottawa. 152 p. |
| 19630010 | N | Ford, W.L. and G. Hattersley-Smith, 1965. On the oceanography of the Nansen Sound fiord system. Arctic, 18(3): 158-171. |
| 19630010 | N | Hattersley-Smith, G. and H. Serson, 1964. Stratified water of a glacial lake in northern Ellesmere Island. Arctic, 10: 109-110. |
| 19630010 | N | Hattersley-Smith, G. and H. Serson, 1966. Reconnaissance oceanography over the ice of the Nansen Sound fiord system. Defence Research Board, De pt. of National Defence, Ottawa. 13 p. plus figures. |
| 19630010 | Y | Hattersley-Smith, G., 1964. Operation Tanguary: preliminary report, 1963. Defence Research Board, Department of National Defence, Ottawa. 33 p. |
| 19630010 | Y | MEDS #180763001 |
| 19640004 | Y | MEDS #180264008 |
| 19640005 | Y | Herlinveaux, R.H., 1965. Oceanographic observations during the Icepack V expedition to the Canadian Arctic, February 1964. Fish. Res. Bd. Canad a. Manuscript Report Series No. 198. Ottawa. 30 p. |
| 19640008 | Y | Canadian Oceanographic Data Centre, 1969. Operation Tanquary, Ellesmere Island, N.W.T., 1963-1966. 1969 Data Record Series No. 13. Ottawa. 152 p. |

| DATASET | PRIMARY | REFERENCE AND/OR MEDS, NODC ID NUMBER |
|---|---|---|
| 19640008 | N | Ford, W.L. and G. Hattersley-Smith, 1965. On the oceanography of the Nansen Sound fiord system. Arctic, 18(3): 158-171. |
| 19640008 | N | Hattersley-Smith, G. and H. Serson, 1966. Reconnaissance oceanography over the ice of the Nansen Sound fiord system. Defence Research Board, Dept. of National Defence, Ottawa. 13 p. plus figures. |
| 19640008 | N | Hattersley-Smith, G., 1967. Operation Tanquary: preliminary report, 1964. Defence Research Board, Department of National Defence, Ottawa. 50 p . |
| 19640008 | Y | MEDS #180764001, MEDS WL-ID #06680 |
| 19650005 | Y | Canadian Oceanographic Data Centre, 1969. Operation Tanquary, Ellesmere Island, N.W.T., 1963-1966. 1969 Data Record Series No. 13. Ottawa. 152 p. |
| 19650005 | Y | MEDS #180765001 |
| 19660010 | Y | Canadian Oceanographic Data Centre, 1969. Operation Tanquary, Ellesmere Island, N.W.T., 1963-1966. 1969 Data Record Series No. 13. Ottawa. 152 p. |
| 19660010 | Y | MEDS #180766001 |
| 19670002 | Y | Canadian Oceanographic Data Centre, 1968. Hudson Bay, Hudson Strait and Arctic. Data Record Series No. 4. Ottawa. 123 p. |
| 19670002 | Y | Herlinveaux, R.H., 1974. Surface movements in Canadian Arctic Waters with some accompanying temperature and salinity observations. Unpub. Man., Pac. Mar. Sci. Rep., Mar. Sci. Dir., Sidney, B.C., 36p. |
| 19670002 | Y | MEDS #180267013 |
| 19670002 | N | Redfield, A.C. and I. Friedman, 1969. The effect of meteoric water, melt water and brine on the composition of polar sea water and of the deep waters of the ocean. Deep Sea Res. Supp. to Vol. 16: 197-214. |
| 19670005 | Y | MEDS #180767002 |
| 19680001 | Y | Herlinveaux, R.H., 1970. Icepack 8/68 - oceanographic and biological observations. Fish. Res. Bd. Canada, Nanaimo, B.C., Tech. Rep. No. 159. 60 p. |
| 19680001 | Y | MEDS #180268013 |
| 19680008 | Y | MEDS #C81173B01, MEDS WL-ID 06660,06680,06757,06833,06834 |

| DATASET | PRIMARY | REFERENCE AND/OR MEDS, NODC ID NUMBER |
|---|---|---|
| 19680015 | Y | Hattersley-Smith, G., 1969. Canadian operation "Hazen-Tanquary", 1968. Polar Record 14(92): 646-647. |
| 19680015 | Y | MEDS #180968001 |
| 19690014 | N | Lake, R.A. and E.R. Walker, 1973. Notes on the oceanography of d'Iberville Fiord. Arctic, 26(3): 222-229. |
| 19690014 | N | Lake, R.A. and E.R. Walker, 1976. A Canadian arctic fjord with some comparisons to fjords of the western Americas. J. Fish. Res. Bd. Canada. 33: 2272-2285. |
| 19690015 | N | Lake, R.A. and E.R. Walker, 1973. Notes on the oceanography of d'Iberville Fiord. Arctic, 26(3): 222-229. |
| 19690015 | N | Lake, R.A. and E.R. Walker, 1976. A Canadian arctic fjord with some comparisons to fjords of the western Americas. J. Fish. Res. Bd. Canada. 33: 2272-2285. |
| 19690015 | Y | MEDS #1800696670, MEDS WL-ID 06670 |
| 19690016 | Y | MEDS WL-ID 06835 |
| 19700016 | Y | Serson, H.V., 1974. Sverdrup Channel. DREO Technical Note 74-10, Defence Research Establishment, Department of National Defence. Ottawa. 4 p. plus figures and plates. |
| 19700017 | N | Lake, R.A. and E.R. Walker, 1973. Notes on the oceanography of d'Iberville Fiord. Arctic, 26(3): 222-229. |
| 19700017 | N | Lake, R.A. and E.R. Walker, 1976. A Canadian arctic fjord with some comparisons to fjords of the western Americas. J. Fish. Res. Bd. Canada. 33: 2272-2285. |
| 19700018 | N | Lake, R.A. and E.R. Walker, 1973. Notes on the oceanography of d'Iberville Fiord. Arctic, 26(3): 222-229. |
| 19700018 | N | Lake, R.A. and E.R. Walker, 1976. A Canadian arctic fjord with some comparisons to fjords of the western Americas. J. Fish. Res. Bd. Canada. 33: 2272-2285. |
| 19700019 | Y | Serson, H.V., 1974. Sverdrup Channel. DREO Technical Note 74-10, Defence Research Establishment, Department of National Defence. Ottawa. 4 p. plus figures and plates. |
| 19710015 | N | Lake, R.A. and E.R. Walker, 1973. Notes on the oceanography of d'Iberville Fiord. Arctic, 26(3): 222-229. |
| 19710015 | N | Lake, R.A. and E.R. Walker, 1976. A Canadian arctic fjord with some comparisons to fjords of the western Americas. J. Fish. Res. Bd. Canada. 33: 2272-2285. |

| DATASET | PRIMARY | REFERENCE AND/OR MEDS, NODC ID NUMBER |
|---|---|---|
| 19720011 | Y | Herlinveaux, R.H., and S.E.G. Wilson, 1974. Oceanographic observations in the Canadian Arctic, September, 1972. Marine Sciences Directorate, Pacific Region. 11 p. |
| 19720023 | Y | Frozen Sea Research Group, Institute of Ocean Sciences, Sidney, B.C. (unpublished data). |
| 19720024 | Y | Serson, H.V., 1974. Sverdrup Channel. DREO Technical Note 74-10, Defence Research Establishment, Department of National Defence. Ottawa. 4 p. plus figures and plates. |
| 19730006 | Y | Herlinveaux, R.H., D.B. Fissel and S.E.G. Wilson, 1978. Oceanographic observations in Barrow Strait and Wellington Channel, N.W.T., April 1973. Institute of Ocean Sciences, Sidney, B.C., Pac. Mar. Sc. Rep. 78-4. 170 p. |
| 19730007 | Y | MEDS file C81173B01, ID #06600 |
| 19730008 | Y | Herlinveaux, R.H., D.B. Fissel and S.E.G. Wilson, (in preparation). Oceanographic observations in Barrow Strait and Wellington Channel, N.W.T., August-September, 1973. Institute of Ocean Sciences, Sidney, B.C. |
| 19730012 | Y | Serson, H.V., 1974. Sverdrup Channel. DREO Technical Note 74-10, Defence Research Establishment, Department of National Defence. Ottawa. 4 p. plus figures and plates. |
| 19730013 | Y | Frozen Sea Research Group, 1973. Oceanographic data report - d'Iberville Fiord, Ellesmere Island, N.W.T., March to April 1973. Pacific Marine Science Report 73-10. Mar. Sci. Dir., Environment Canada, Victoria, B.C. 123 p. |
| 19730013 | N | Lake, R.A. and E.R. Walker, 1976. A Canadian arctic fjord with some comparisons to fjords of the western Americas. J. Fish. Res. Bd. Canada. 33: 2272-2285. |
| 19730014 | Y | MEDS #C81173B01, WL-ID 06600 |
| 19730015 | N | Lake, R.A. and E.R. Walker, 1976. A Canadian arctic fjord with some comparisons to fjords of the western Americas. J. Fish. Res. Bd. Canada. 33: 2272-2285. |
| 19740014A | Y | Thomson, D., S. Woods and J. Acreman, 1975. Marine ecology survey in the central portion of the Canadian Arctic Islands, 1974. Marine Sciences Centre, McGill University. Report prepared for Polar Gas Project, 77 p. |
| 19740018 | Y | Beak Consultants Ltd., 1974. Environmental assessment and oil spill contingency plan in support of an application for drilling authority to Panarctic - Jackson Bay G-16. Report for Panarctic Oils Ltd., Calgary, Alberta. |

| DATASET | PRIMARY | REFERENCE AND/OR MEDS, NODC ID NUMBER |
|---|---|---|
| 19740025 | Y | Frozen Sea Research Group, 1975. Oceanographic data report - d'Iberville Fiord, Ellesmere Island, N.W.T., March to April 1974, August 1974. Pacific Marine Science Report 75-1, Institute of Ocean Sciences, Sidney, B.C. 139 p. |
| 19740025 | N | Lake, R.A. and E.R. Walker, 1976. A Canadian arctic fjord with some comparisons to fjords of the western Americas. J. Fish. Res. Bd. Canada. 33: 2272-2285. |
| 19740118 | Y | Pluritec Consultants Ltd., 1975. Panarctic Oil Ltd., Jackson Bay, Ellef Ringnes Island, N.W.T.; Baseline, environmental and resource data on flora, fauna, sediments and soils. Report for Panarctic Oil Ltd., Calgary, Alta. 174 p. |
| 19740121 | Y | B. C. Research, 1975. Environmental Study of Polaris Mine, Little Cornwallis Island. Report to Cominco Ltd. |
| 19740121 | Y | Dobrocky Seatech Ltd., 1975 (poss. 1974?). Report of the hydrographic and limnological survey at Little Cornwallis Island, Aug. 1974. |
| 19740134 | Y | Unpub. data, Polar Gas Project; avail. from I.O.S. |
| 19750016 | Y | Beak Consultants Ltd., 1975c. Preliminary report on current measurements for Panarctic site between Emerald Isle and Melville Island. Report to Panarctic Oils Ltd., Calgary, Alberta. 13 p. |
| 19750016 | Y | Beak Consultants Ltd., 1976a. Analysis of oceanographic data, Cape Grassy. Report to Panarctic Oils Ltd., Calgary, Alberta. 23 p. plus unnumbered appendices. |
| 19750017 | Y | Beak Consultants Ltd., 1976b. Analysis of oceanographic data - Warren Point - Northeast Drake. Report to Panartic Oils Ltd., Calgary, Alberta. 40 p. plus appendices. |
| 19750018 | Y | Beak Consultants Ltd., 1976c. Analysis of oceanographic data for APOA project #79. Report to Panarctic Oils Ltd., Calgary, Alberta. |
| 19750019 | Y | Beak Consultants Ltd., 1975b. Biological investigations - Panarctic, Gulf et al., East Drake I-55. Report to Panarctic Oils Ltd., Calgary, Alberta. |
| 19750020 | Y | Beak Consultants Ltd., 1976d. Analysis of oceanographic data - Hecla P-62. Report to Panarctic Oils Ltd., Calgary, Alberta. 31 p. plus appendices. |
| 19750021 | Y | Beak Consultants Ltd., 1976e. Analysis of oceanographic data - Jackson Bay G-16. Report to Panarctic Oils Ltd., Calgary, Alberta. 25 p. plus appendices. |

| DATASET | PRIMARY | REFERENCE AND/OR MEDS, NODC ID NUMBER |
|---|---|---|
| 19750022 | Y | Innovative Ventures Ltd., 1976. Data report for Panarctic Oils Ltd. (APOA 95), Calgary, Alberta, 5 volumes. |
| 19750023 | Y | Beak Consulants Ltd., 1975a. Marine surveys - Jackson Bay, a pre-operational study of the environment of Jackson Bay. Report to Panarctic Oils Ltd., Calgary, Alberta. 13 p. plus appendices. |
| 19750039 | Y | Frozen Sea Research Group, 1976a. Oceanographic data report, d'Iberville Fiord, Ellesmere Island, N.W.T., March to April 1975. Pacific Marine S ciences Report 76-19, Institute of Ocean Sciences, Sidney, B.C. 166 p. |
| 19750039 | N | Lake, R.A. and E.R. Walker, 1976. A Canadian arctic fjord with some comparisons to fjords of the western Americas. J. Fish. Res. Bd. Can. 33: 2272-2285. |
| 19750040 | Y | MEDS WL-ID 06835 |
| 19750138 | N | Lake, R.J.A. and E.R. Walker. 1976. A Canadian arctic fjord with some comparisons to fjords of the western Americas. J. Fish. Res. Bd. Canada. 33: 2272-2285. |
| 19750138 | Y | Unpublished data. Mr. R.A. Lake, Institute of Ocean Sciences, Sidney, B.C. |
| 19760010 | Y | Thomson, D.H., C.M. Martin and W.E. Cross, 1986. Identification and characterization of Arctic nearshore benthic habitats. Can. Tech. Rep. Fish . Aquat. Sci. 1434, vii + 70 p. |
| 19760014 | Y | Beak Consultants Ltd., 1976f. Analysis of oceanographic data, Hecla M-25. Report to Panarctic Oils Ltd., Calgary, Alberta. 38 p. plus appendices. |
| 19760015 | Y | Innovative Ventures Ltd., 1976. Data report for Panarctic Oils Ltd. (APOA 95), Calgary, Alberta, 5 volumes. |
| 19760016 | Y | Peck, G.S., 1977. Arctic oceanographic data report 1976 - Penny Strait. Data Report Series 77-2, Ocean and Aquatic Sciences, Canada Centre for Inland Waters, Burlington, Ontario. 38 p. plus appendices. |
| 19760017 | Y | Frozen Sea Research Group, 1976b. Oceanographic data, Byam and Austin Channels, N.W.T. Institute of Ocean Sciences, Sidney, B.C.(unpublished manuscript available from Frozen Sea Research Group, Institute of Ocean Sciences). |
| 19760017 | Y | Greisman, P. and R.A. Lake, 1978. Current observations in the channels of the Canadian Arctic archipelago adjacent to Bathurst Island. Pacific Marine Science Report 78-23. Institute of Ocean Sciences, Sidney, B.C. 127 p. |

| DATASET | PRIMARY | REFERENCE AND/OR MEDS, NODC ID NUMBER |
|---|---|---|
| 19760018 | Y | Frozen Sea Research Group, 1976c. Oceanographic data report, d'Iberville Fiord, Greely Fiord, Eureka Sound, Ellesmere Island, N.W.T., March 197 6. Pacific Marine Science Report 76-20, Institute of Ocean Sciences, Sidney, B.C. 201 p. |
| 19760019 | N | Van Ieperen, M.P., 1981. Oceanographic summary report of current, tide, temperature and salinity data (1974-1980). Panarctic Oils Ltd. Calgary, Alberta. 22 p. + appendices. |
| 19770016 | Y | Thomson, D.H., C.M. Martin and W.E. Cross, 1986. Identification and characterization of Arctic nearshore benthic habitats. Can. Tech. Rep. Fish . Aquat. Sci. 1434, vii + 70 p. |
| 19770019 | Y | Frozen Sea Research Group, 1977a. Oceanographic data report - D'Iberville Fjord, Ellesmere Island, N.W.T., March, 1977. Pacific Marine Scienc e Report 77-23. Institute of Ocean Sciences, Sidney, B. C. 101 p. |
| 19770019 | N | Greisman, P., 1979. On upwelling driven by the melt of ice shelves and tidewater glaciers. Deep-Sea Res., 26A: 1051-1065. |
| 19770022 | Y | Innovative Ventures Ltd., 1977a. Oceanographic data report for Hecla C-58, spring 1977 data. Report to Panarctic Oils Ltd., Calgary, Alberta. |
| 19770023 | Y | Innovative Ventures Ltd., 1977b. Summary report, ice motion, oceanographic and meteorological data (Project APOA 118). Report to Panarctic Oils Ltd., Calgary, Alberta, 4 volumes. |
| 19770024 | Y | Panarctic Oils Ltd., 1978a. Cape Grassy I-34 oceanographic data report. Calgary, Alberta. |
| 19770025 | Y | Panarctic Oils Ltd., 1978b. Roche Point O-43 oceanographic data report. Calgary, Alberta. |
| 19770026 | Y | Frozen Sea Research Group, 1977b. Oceanographic data, Crozier and Pullen Straits, N.W.T., March to April 1977. Pacific Marine Science Report 77 -20. Institute of Ocean Sciences, Sidney, B.C. |
| 19770026 | Y | Greisman, P. and R.A. Lake, 1978. Current observations in the channels of the Canadian Arctic Archipelago adjacent to Bathurst Island. Pac. Mar . Sci. Rep. 78-23. I.O.S., Sidney, B.C. 127p. |
| 19770033 | Y | Fissel, D.B., 1982. Current meter measurements from the SALDAS buoys, 1977-1979: a data report. Report to Petro-Canada, Calgary, Alberta by Arctic Sciences Ltd., Sidney, B.C. 47 p. |

| DATASET | PRIMARY | REFERENCE AND/OR MEDS, NODC ID NUMBER |
|---|---|---|
| 19770119 | Y | B.C. Research, 1977 (poss. 1978?). Polaris Mine Aquatic Environmental Studies, 1977. Report prepared for Cominco Ltd. |
| 19780007 | Y | Peck, G.S., 1980a. Arctic oceanographic data report 1978, Volume 2. Data Report Series 80-1, Ocean and Aquatic Sciences, Central Region, Canada Centre for Inland Waters, Burlington, Ontario. 163 p. |
| 19780007 | Y | Prinsenberg, S.J., 1978. Arctic oceanographic data report 1978, Volume I. Data Report Series 78-4, Ocean and Aquatic Sciences, Central Region, Canada Centre for Inland Waters, Burlington, Ontario. 211 p. |
| 19780010 | N | Van Ieperen, M.P., 1981. Oceanographic summary report of current, tide, temperature and salinity data (1974-1980). Panarctic Oils Ltd. 22 p. + appendices. |
| 19780011 | Y | Panarctic Oils Ltd., 1979d. Atmospheric and oceanographic data report, N.E. Cornwall and Edinburgh Sea stations (AIEG Ice Motion Program 1977/7 8). Calgary, Alberta. |
| 19780012 | Y | Frozen Sea Research Group, 1981. Oceanographic data report, Crozier and Pullen Straits, N.W.T., Wellington Channel, N.W.T., March-April, 1978. Institute of Ocean Sciences, Sidney, B.C. |
| 19780013 | Y | Panarctic Oils Ltd, 1979a. Hazen F-54 oceanographic data report. Calgary, Alberta. |
| 19780014 | Y | Panarctic Oils Ltd., 1979b. Desbarats B-73 oceanographic data report. Calgary, Alberta. 17 p. plus appendices. |
| 19780014 | Y | Strandberg, A.G., 1979. Desbarats B-73 Offshore Drilling Ice Platform, completed project report submitted by Fenco Consultants Ltd. to Panarctic Oils Ltd. |
| 19780016 | Y | Masterson, D.M., and A.G. Strandberg, 1978. Drake F-76 Offshore Drilling Ice Platform, completed project report submitted to Panarctic Oils Ltd . |
| 19780016 | Y | Masterson, D.M., and V. Neth, 1977. Offshore drilling ice platforms for West-Hi Rig #1 at Drake F-76 and Roche I-43. Report submitted by Fenco Consultants Ltd. to Panarctic Oils Ltd. |
| 19780016 | N | Van Ieperen, M.P., 1981. Oceanographic summary report of current, tide, temperature and salinity data (1974-1980). Panarctic Oils Ltd. 22 p. + appendices. |
| 19790017 | Y | Fissel, D.B., 1982. Current meter measurements from the SALDAS buoys, 1977-1979: a data report. Report to Petro-Canada, Calgary, Alberta by Arctic Sciences Ltd., Sidney, B.C. 47 p. |

| DATASET | PRIMARY | REFERENCE AND/OR MEDS, NODC ID NUMBER |
|---|---|---|
| 19790018 | Y | Masterson, D.M., and A.G. Strandberg, 1979. Whitefish H-63 offshore drilling ice platforms. Completed project report submitted by Fenco Consult ants Ltd. to Panarctic Oils Ltd. |
| 19790018 | Y | Panarctic Oils Ltd., 1979c. Whitefish H-63 oceanographic data report. Calgary, Alberta. |
| 19790019 | Y | Peck, G.S., 1980b. Arctic oceanographic data report 1979, Sverdrup Basin, Volume 1. Data Report Series 80-2, Aquatic Sciences, Central Region, Canada Centre for Inland Waters, Burlington, Ontario. 228 p. |
| 19790019 | Y | Peck, G.S, 1980c. Arctic oceanographic data report 1979, Sverdrup Basin, Volume 2. Data Report Series 80-3, Ocean and Aquatic Sciences, Central Region, Canada Centre for Inland Waters, Burlington, Ontario. 91 p. |
| 19790020 | Y | Panarctic Oils Ltd., 1980a. Whitefish H-63A oceanographic data report. Calgary, Alberta. 17 p. plus appendices. |
| 19790020 | Y | Strandberg, A.G. and M.C. Hall, 1980. Whitefish H-63A offshore drilling ice platform. Completed project report submitted by Fenco Consultants Ltd. to Panarctic Oils Ltd. |
| 19790021 | Y | Canadian Hydrographic Service, Institute of Ocean Sciences, Sidney, B.C. (unpublished data). |
| 19790021 | Y | Sandilands R.G., R.R. Solvason, and D.A. St. Jacques, 1985. 1979 Arctic tidal survey data report. CHS, Central Reg. Bayfield Lab. for Mar. Sc. and Surveys, Burlington, Ontario. 4 p. plus unnumbered figs and tables. |
| 19790022 | Y | Panarctic Oils Ltd., 1980b. Baiaena D-58, Char G-07, oceanographic data report. Calgary, Alberta. 16 p. plus appendices. |
| 19790022 | N | Van Ieperen, W.P., 1981. Oceanographic summary report of current, tide, temperature and salinity data (1974-1980). Panarctic Oils Ltd., Calgary , Alberta, 22 p. plus appendices. |
| 19800013 | Y | Topham, D.R., R.G. Perkin, S.D. Smith, R.J. Anderson, and G. Den Hartog, 1983. An investigation of a polynya in the Canadian Archipelago 1, introduction and oceanography. J. Geophys. Res. vol. 88, no. C5: 2888-2899. |
| 19800014 | Y | Juhasz, T.A., 1980. Polar Gas Pipeline Survey: ocean current measurement program Lougheed Island to Melville Island, N.W.T. Dobrocky Seatech Ltd., Victoria, B.C., Report to the Polar Gas Project. 41 p. |

| DATASET | PRIMARY | REFERENCE AND/OR MEDS, NODC ID NUMBER |
|---|---|---|
| 19800015 | Y | Canadian Hydrographic Service, Institute of Ocean Sciences, Sidney, B.C. (unpublished data). |
| 19810007 | Y | Brooks, D.J., 1981. Arctic oceanographic survey Barrow Strait - 1981 field report. Unpubl. internal report. Ocean and Aquatic Sciences, Burlington, Ontario. 66 p. |
| 19810007 | Y | Prinsenberg, S.J. and D. Sosnoski, 1983. Barrow Strait oceanographic data report 1981. Vol. 1, DRS 83-2, Bayfield Lab. Mar. Sc. and Surveys. Burlington, Ont. 175 p. |
| 19810007 | N | Prinsenberg, S.J. and E.B. Bennett, 1987. Analysis of current time series and current profile data from Peel Sound, Canadian Arctic. Can. Tech. Rep. Hydrogr. Ocean Sc. No. 102, vii + 101 p. |
| 19810019 | Y | Canadian Hydrographic Service, Institute of Ocean Sciences, Sidney, B.C. (unpublished data). |
| 19810108 | Y | Unpub. data; Freshwater Institute; B.W. Fallis. |
| 19810116 | Y | Sandilands, R.G., R.R. Solvason and D.A. St. Jacques, 1985. 1981 tidal survey of Norwegian Bay, N.W.T., Data Report,CHS, Central Region, Bayfield Laboratory for Mar. Sc. and Surveys, Burlington, Ont. 4 p. plus unnum. figs. and tables. |
| 19810117 | Y | Fenco Consultant Ltd., 1981. Completed project report. Offshore drilling ice platform, CISCO B-66. Unpub. report for Panarctic Oils Ltd. 35 p. plus unnumbered appendices. |
| 19820003 | Y | Fissel, D.B., D.N. Knight and J.R. Birch, 1984. An oceanographic survey of the Canadian Arctic Archipelago March, 1982. Can. Contractor Rept. Hydrogr. Ocean. Sci. No. 15. 415 p. |
| 19820003 | N | Melling, H., R.A. Lake, D.R. Topham and D.B. Fissel, 1984. Oceanic thermal structure in the western Canadian Arctic. Cont. Shelf Res., 3(3): 233-258. |
| 19820107 | Y | Unpub. data; Mar. Ecol. Lab, B.I.O., Dartmouth, N.S.; Dr. N. Watson. |
| 19820129A | Y | Van Ieperen, M.P., 1983. Norwegian Bay ice motion and oceanographic study 1981/1982. Panarctic Oils Ltd., Calgary, Alberta. 14 p. plus unnumbered figs. |
| 19820129B | Y | Van Ieperen, M.P., 1983. Norwegian Bay ice motion and oceanographic study 1981/1982. Panarctic Oils Ltd., Calgary, Alberta. 14 p. plus unnumbered figures. |
| 19820130 | Y | Van Ieperen, M.P., 1982a. Cape Mamen F-24, meteorologic and oceanographic data report - 1982. Panarctic Oils Ltd., Calgary, Alberta. 23 p. |

| DATASET | PRIMARY | REFERENCE AND/OR MEDS, NODC ID NUMBER |
|---|---|---|
| 19820130 | Y | Van Ieperen, M.P., 1982b. Sculpin K-08, meteorologic and oceanographic data report - 1982. Panarctic Oils Ltd., Calgary, Alberta. 23 p. |
| 19820131 | Y | Unpub. data; Can. Hydr. Ser., I.O.S., Sidney, B.C. |
| 19830004A | Y | Unpub. data; I.O.S., Sidney, B.C.; R. Perkin. |
| 19830005 | Y | Fissel, D.B., D.D. Lemon, and D.N. Knight, 1984. An oceanographic survey of the Canadian Arctic Archipelago, March 1983. Can. Contr. Rep. Hyd rogr. Ocean Sci. No. 16. 355 p. |
| 19830008 | Y | Buckingham, W.R., R.A. Lake and H. Melling, 1987a. Temperature and salinity measurements in the Northwest Passage, Vol. 2, March 1983. Can. Tech. Rep. Hydrogr. Ocean Sci., No. 39, 152 p. |
| 19830008 | Y | Buckingham, W.R., R.A. Lake and H. Melling, 1987c. Current and sea-level measurements in the Northwest Passage, Vol. 2 March 1983 - April 1984. Can. Data Rep. Hydrogr. Ocean Sci., No. 51, 84 p. |
| 19830008 | N | Fissel, D.B., J.R. Birch, H. Melling and R.A. Lake, 1988. Non-tidal flows in the Northwest Passage. Can. Tech. Rep. Hydrogr. Ocean Sci., No. 98 , 143 p. |
| 19830008 | N | Stronach, J.A., J.A. Helbig, S.S. Salvador, H. Melling and R.A. Lake, 1987. Tidal elevations and tidal currents in the Northwest Passage. Can. Tech. Rep. Hydrogr. Ocean Sci., No. 97, 329 p. |
| 19830008 | N | de Lange Boom, B.R., H. Melling and R.A. Lake, 1987. Late winter hydrography of the Northwest Passage: 1982, 1983 and 1984. Can. Tech. Rep. Hyd rogr. Ocean Sci., No. 79, 165 p. |
| 19830076 | Y | Panarctic Oils Ltd., 1983. Panarctic et al. Cape MacMillan 2K-15 Oceanographic data report - 1983. Panarctic Oils Ltd., Calgary, Alberta. 35 p. |
| 19830077 | Y | Unpub. data; Can. Hydr. Ser.; I.O.S., Sidney, B.C. |
| 19840039 | Y | Unpub. data; Dept. Fish. Oc., Winnipeg, Man.; B.W. Fallis. |
| 19840049A | Y | Buckingham, W.R., R.A. Lake and H. Melling, 1987d. Current and sea-level measurements in the Northwest Passage, Vol. 3 March 1984 - April 1985 . Can. Data Rep. Hydrogr. Ocean Sci., No. 51, 139 p. |
| 19840049A | N | Fissel, D.B., J.R. Birch, H. Melling and R.A. Lake, 1988. Non-tidal flows in the Northwest Passage. Can. Tech. Rep. Hydrogr. Ocean Sci., No. 98, 143 p. |

| DATASET | PRIMARY | REFERENCE AND/OR MEDS, NODC ID NUMBER |
|---|---|---|
| 19840049A | N | Buckingham, W.R., R.A. Lake and H. Melling, 1987b. Temperature and salinity measurements in the Northwest Passage, Vol. 3, March - April 1984. Can. Data Rep. Hydrogr. Ocean Sci., No. 39, 604 p. |
| 19840049A | N | de Lange Boom, B.R., H. Melling and R.A. Lake, 1987. Late winter hydrography of the Northwest Passage: 1982, 1983 and 1984. Can. Tech. Rep. Hy drogr. Ocean Sci., No. 79, 165 p. |
| 19840049A | N | Stronach, J.A., J.A. Helbig, S.S. Salvador, H. Melling and R.A. Lake, 1987. Tidal elevations and tidal currents in the Northwest Passage. Can. Tech. Rep. Hydrogr. Ocean Sci., No. 97, 329 p. |
| 19840049B | Y | Unpub. data; Inst. Ocean. Sc., Sidney, B.C.; R. Perkin. |
| 19840059 | Y | Van Ieperen, M.P., 1984. Panarctic et al. Buckingham 0-68 Oceanographic data report - 1984. Panarctic Oils Ltd., Calgary, Alberta. 24 p. plus unnumbered appendices. |
| 19840059 | Y | Dobrocky Seatech Ltd., 1984. 1984 rig-site monitoring at Buckingham 0-68. Dobrocky Seatech Ltd., Sidney, B. C. for Panarctic Oils Ltd. 12 p. plus unnumbered appendices. |
| 19840060 | Y | Canadian Hydrographic Service. Unpublished data. |
| 19850015 | Y | Dr. R.M. Moore, Dalhousie University. Unpublished data. |
| 19850041 | Y | Geotech. Unpublished data. Geotechnical Services Ltd., Calgary, Alberta. |
| 19850042 | Y | Canadian Hydrographic Service. Unpublished data. |
| 19850043 | Y | Sandilands, R.G., R.R. Solvason and D.A. St. Jacques, 1986. 1985 tidal survey in the vicinity of Cameron Island, N.W.T. Data Rep. by CHS Central Region, Burlington, Ont. |
| 19850044 | Y | Perkin R., Institute of Ocean Sciences, Sidney, B.C. Unpublished data. |
| 19860016 | Y | Geotech, 1986. N. Buckingham L-71, data presentation. Unpub. Rep. by Geotechnical Services Ltd., Calgary, Alberta, unpagenated. |
| 19860018 | Y | Head, E.J.H., A. Bedo, and L.R. Harris, 1988. Grazing, defacation and excretion rates of copepods from inter-island channels of the Canadian Arctic Archipelago. Mar. Biol. 99: 333-340. |
| 19870002 | Y | Grant, S., Bedford Institute of Oceanography, Dartmouth, N.S., Unpub. data. |

## 11. DATA INVENTORY TABLE 2 - LISTING OF MEASUREMENT LOCATIONS AND OTHER PARAMETERS

This section contains detailed listings of measurement locations and times for each of the data sets plotted on the maps in Section 9. There are separate listings for temperature-salinity, current-meter and water-level data. Listings are ordered by data-set number and sorted by date. An explanation of the format appears at the start of each listing. Only data collected within the area of this inventory are listed here; measurements taken elsewhere may be found in the inventories for those areas.

## 11.1 TEMPERATURE-SALINITY DATA

The listings contain the following information:

| | |
|---|---|
| AREA | General area of station. |
| STN | Station number; wherever possible it is the station number assigned in the original data source. |
| LAT, LONG | In degrees and minutes. |
| YR | Year |
| MO | Month |
| DY | Day |
| HR | Hour; GMT unless specified otherwise |
| CAST TO | Maximum depth of data, in metres. Zero value implies a surface measurement. |
| WATER DEPTH | In metres, if available. |
| PARAM MEAS | Parameters measured - conductivity (C), salinity (S), temperature (T). Each parameter measured is indicated by an 'X'. An 'X' under S indicates that salinity was measured by techniques such as titration. Most recent measurements are of the water conductivity ('X' under C), and salinity is then computed using the pressure, temperature and conductivity values |
| INSTR | Instruments type:<br>AAND - Aanderaa current meter<br>TG3A/m- temperature data from a moored tide guage, model TG3A<br>TG12/m- temperature data from a moored tide guage, model TG12A<br>WLR5/m- temperature data from a moored tide guage, model WLR5<br>RCM4/m- TS data from a moored current meter, model RCM-4<br>RCM4/p- TS profile data using an RCM-4<br>BECK - Beckman<br>BISS - Bisset Berman STD<br>BOTT - bottle sample<br>CTD - unspecified conductivity/temperature/depth meter<br>CT12 - Applied Microsystems CTD-12<br>GLDL - Guildline CTD<br>HYT - Hytech induction salinometer<br>INTO - Interocean CTD<br>YSI - Yellow Springs Instruments Co.<br>AML - Applied Microsystems Ltd. CTD<br>THERM - Thermister |
| INT(HR) | The time period between repetitive sampling at the same station. |
| NO | The number of repetitive samples. |

NS entries indicate unavailable or inapplicable data.

TABLE 2 - TEMPERATURE-SALINITY DATA

| DATASET | AREA | STN | LATITUDE DEG | LATITUDE MIN | LONGITUDE DEG | LONGITUDE MIN | START YR | START MN | START DY | START HR | STOP YR | STOP MN | STOP DY | DEPTHS(M) CAST | DEPTHS(M) WATER | C | S | T | INSTR | REPEAT HR | REPEAT NO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19460001 | WELLINGTON CH | 40 | 75 | 27.00 | 92 | 22.00 | 46 | 09 | 05 | NS | 46 | 09 | 05 | 150 | 155 |  | X | X | BOTT |  |  |
| 19480001 | EUREKA SD | 12 | 79 | 44.00 | 86 | 25.00 | 48 | 08 | 29 | NS | 48 | 08 | 29 | 111 | 349 |  | X | X | BOTT |  |  |
| 19520003 | EUREKA SD | 42 | 79 | 59.00 | 85 | 57.00 | 52 | 08 | 17 | 17 | 52 | 08 | 17 | 50 | 64 |  | X | X | BOTT |  |  |
| 19520003 | EUREKA SD | 43 | 79 | 54.00 | 86 | 38.00 | 52 | 08 | 18 | 15 | 52 | 08 | 18 | 300 | 347 |  | X | X | BOTT |  |  |
| 19520003 | EUREKA SD | 44 | 79 | 1.00 | 84 | 55.00 | 52 | 08 | 18 | 21 | 52 | 08 | 18 | 97 | 118 |  | X | X | BOTT |  |  |
| 19520003 | EUREKA SD | 45 | 78 | 25.00 | 88 | 10.00 | 52 | 08 | 19 | 03 | 52 | 08 | 19 | 145 | 329 |  | X | X | BOTT |  |  |
| 19520003 | NORWEGIAN BAY | 46 | 77 | 47.00 | 89 | 22.00 | 52 | 08 | 19 | 06 | 52 | 08 | 19 | 300 | 310 |  | X | X | BOTT |  |  |
| 19520003 | NORWEGIAN BAY | 47 | 76 | 59.00 | 89 | 30.00 | 52 | 08 | 19 | 11 | 52 | 08 | 19 | 250 | 292 |  | X | X | BOTT |  |  |
| 19520003 | NORWEGIAN BAY | 48 | 76 | 18.00 | 88 | 46.00 | 52 | 08 | 19 | 16 | 52 | 08 | 19 | 150 | 182 |  | X | X | BOTT |  |  |
| 19540001 | WELLINGTON CH | 42 | 74 | 44.00 | 93 | 16.00 | 54 | 08 | 18 | 18 | 54 | 08 | 18 | 100 | 155 |  | X | X | BOTT |  |  |
| 19540001 | WELLINGTON CH | 43 | 74 | 44.00 | 92 | 52.00 | 54 | 08 | 18 | 19 | 54 | 08 | 18 | 75 | 115 |  | X | X | BOTT |  |  |
| 19540001 | WELLINGTON CH | 44 | 74 | 43.00 | 92 | 17.00 | 54 | 08 | 18 | 21 | 54 | 08 | 18 | 50 | 97 |  | X | X | BOTT |  |  |
| 19540001 | BYAM CH | 53 | 75 | 7.00 | 104 | 54.00 | 54 | 08 | 25 | 02 | 54 | 08 | 25 | 65 | 80 |  | X | X | BOTT |  |  |
| 19540001 | BYAM CH | 55 | 75 | 10.00 | 105 | 33.00 | 54 | 08 | 25 | 04 | 54 | 08 | 25 | 150 | 150 |  | X | X | BOTT |  |  |
| 19540001 | BYAM CH | 54 | 74 | 59.00 | 105 | 14.00 | 54 | 08 | 25 | 06 | 54 | 08 | 25 | 100 | 119 |  | X | X | BOTT |  |  |
| 19570003 | WELLINGTON CH | 66 | 74 | 40.00 | 92 | 30.00 | 57 | 08 | 28 | 17 | 57 | 08 | 28 | 100 | 132 |  | X | X | BOTT |  |  |
| 19570003 | WELLINGTON CH | 67 | 74 | 39.00 | 92 | 58.00 | 57 | 08 | 28 | 18 | 57 | 08 | 28 | 150 | 152 |  | X | X | BOTT |  |  |
| 19570003 | WELLINGTON CH | 68 | 74 | 39.00 | 93 | 31.00 | 57 | 08 | 28 | 19 | 57 | 08 | 28 | 150 | 177 |  | X | X | BOTT |  |  |
| 19570003 | WELLINGTON CH | 107 | 75 | 2.00 | 93 | 17.00 | 57 | 09 | 15 | 01 | 57 | 09 | 15 | 250 | 265 |  | X | X | BOTT |  |  |
| 19570003 | WELLINGTON CH | 108 | 75 | 3.00 | 92 | 48.00 | 57 | 09 | 15 | 02 | 57 | 09 | 15 | 150 | 159 |  | X | X | BOTT |  |  |
| 19570003 | WELLINGTON CH | 109 | 75 | 5.00 | 92 | 30.00 | 57 | 09 | 15 | 03 | 57 | 09 | 15 | 100 | 132 |  | X | X | BOTT |  |  |
| 19570003 | WELLINGTON CH | 110 | 75 | 23.00 | 93 | 20.00 | 57 | 09 | 15 | 07 | 57 | 09 | 15 | 200 | 238 |  | X | X | BOTT |  |  |
| 19570003 | WELLINGTON CH | 111 | 75 | 24.00 | 93 | 2.00 | 57 | 09 | 15 | 08 | 57 | 09 | 15 | 150 | 150 |  | X | X | BOTT |  |  |
| 19570003 | WELLINGTON CH | 112 | 75 | 24.00 | 92 | 36.00 | 57 | 09 | 15 | 10 | 57 | 09 | 15 | 100 | 137 |  | X | X | BOTT |  |  |
| 19570003 | WELLINGTON CH | 113 | 75 | 36.00 | 93 | 18.00 | 57 | 09 | 15 | 12 | 57 | 09 | 15 | 200 | 230 |  | X | X | BOTT |  |  |
| 19570003 | WELLINGTON CH | 114 | 75 | 36.00 | 94 | 12.00 | 57 | 09 | 15 | 15 | 57 | 09 | 15 | 50 | 68 |  | X | X | BOTT |  |  |
| 19570003 | QUEENS CH | 115 | 75 | 44.00 | 95 | 0.00 | 57 | 09 | 15 | 16 | 57 | 09 | 15 | 100 | 112 |  | X | X | BOTT |  |  |
| 19570003 | QUEENS CH | 116 | 75 | 51.00 | 95 | 16.00 | 57 | 09 | 15 | 17 | 57 | 09 | 15 | 30 | 51 |  | X | X | BOTT |  |  |
| 19570003 | QUEENS CH | 117 | 75 | 58.00 | 95 | 28.00 | 57 | 09 | 15 | 18 | 57 | 09 | 15 | 75 | 88 |  | X | X | BOTT |  |  |
| 19570003 | QUEENS CH | 118 | 76 | 6.00 | 95 | 36.00 | 57 | 09 | 15 | 20 | 57 | 09 | 15 | 150 | 165 |  | X | X | BOTT |  |  |
| 19570003 | QUEENS CH | 119 | 76 | 14.00 | 95 | 37.00 | 57 | 09 | 15 | 21 | 57 | 09 | 15 | 50 | 68 |  | X | X | BOTT |  |  |
| 19570003 | QUEENS CH | 120 | 76 | 12.00 | 96 | 16.00 | 57 | 09 | 15 | 22 | 57 | 09 | 15 | 200 | 229 |  | X | X | BOTT |  |  |
| 19570003 | QUEENS CH | 121 | 76 | 10.00 | 96 | 59.00 | 57 | 09 | 15 | 23 | 57 | 09 | 15 | 121 | 137 |  | X | X | BOTT |  |  |
| 19570003 | PENNY ST | 122 | 76 | 29.00 | 96 | 43.00 | 57 | 09 | 16 | 01 | 57 | 09 | 16 | 150 | 176 |  | X | X | BOTT |  |  |
| 19570003 | PENNY ST | 123 | 76 | 40.00 | 97 | 5.00 | 57 | 09 | 16 | 16 | 57 | 09 | 16 | 250 | 276 |  | X | X | BOTT |  |  |
| 19570003 | QUEENS CH | 124 | 76 | 41.00 | 97 | 47.00 | 57 | 09 | 16 | 22 | 57 | 09 | 16 | 100 | 104 |  |  | X | BOTT |  |  |
| 19570003 | WELLINGTON CH | 125 | 75 | 56.00 | 93 | 47.00 | 57 | 09 | 17 | 02 | 57 | 09 | 17 | 250 | 293 |  | X | X | BOTT |  |  |

TABLE 2 - TEMPERATURE-SALINITY DATA

| DATASET | AREA | STN | LATITUDE | | LONGITUDE | | START | | | | STOP | | | DEPTHS(M) | | | | | | REPEAT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | DEG | MIN | DEG | MIN | YR | MN | DY | HR | YR | MN | DY | CAST | WATER | C | S | T | INSTR | HR | NO |
| 19600005 | WELLINGTON CH | 6 | 74 | 41.50 | 93 | 14.00 | 60 | 08 | 30 | 13 | 60 | 08 | 30 | 75 | 146 | | X | X | BOTT | | |
| 19600005 | WELLINGTON CH | 7 | 74 | 41.50 | 93 | 5.00 | 60 | 08 | 30 | 14 | 60 | 08 | 30 | 100 | 146 | | X | X | BOTT | | |
| 19600005 | WELLINGTON CH | 8 | 74 | 41.00 | 92 | 38.00 | 60 | 08 | 30 | 15 | 60 | 08 | 30 | 75 | 123 | | X | X | BOTT | | |
| 19600005 | WELLINGTON CH | 9 | 74 | 40.00 | 92 | 12.00 | 60 | 08 | 30 | 17 | 60 | 08 | 30 | 75 | 119 | | X | X | BOTT | | |
| 19600007 | PR GUSTAF ADOLF | 1 | 78 | 44.50 | 103 | 30.00 | 60 | 04 | 18 | 20 | 60 | 04 | 18 | 180 | 184 | | X | X | BOTT | | |
| 19600007 | ARCTIC OCEAN | 2 | 79 | 25.00 | 105 | 56.00 | 60 | 04 | 23 | 20 | 60 | 04 | 23 | 140 | 143 | | X | X | BOTT | | |
| 19600007 | PEARY CH | 3 | 79 | 25.50 | 104 | 4.00 | 60 | 04 | 26 | 03 | 60 | 04 | 26 | 330 | 331 | | X | X | BOTT | | |
| 19600007 | PEARY CH | 4 | 79 | 35.50 | 102 | 53.00 | 60 | 04 | 28 | 09 | 60 | 04 | 28 | 380 | 387 | | X | X | BOTT | | |
| 19600007 | PEARY CH | 5 | 79 | 46.50 | 101 | 14.00 | 60 | 04 | 29 | 20 | 60 | 04 | 29 | 500 | 527 | | X | X | BOTT | | |
| 19600007 | PEARY CH | 6 | 79 | 51.50 | 100 | 34.00 | 60 | 04 | 30 | 19 | 60 | 04 | 30 | 530 | 534 | | X | X | BOTT | 0 | 2 |
| 19600007 | SVERDRUP CH | 7 | 80 | 4.50 | 97 | 10.00 | 60 | 04 | 30 | 19 | 60 | 04 | 30 | 190 | 192 | | X | X | BOTT | | |
| 19600007 | PR GUSTAF ADOLF | 8 | 79 | 9.50 | 106 | 35.00 | 60 | 05 | 04 | 05 | 60 | 05 | 04 | 450 | 458 | | X | X | BOTT | | |
| 19600007 | PR GUSTAF ADOLF | 9 | 79 | 0.50 | 107 | 30.00 | 60 | 05 | 18 | 00 | 60 | 05 | 18 | 440 | 444 | | X | X | BOTT | | |
| 19600007 | PR GUSTAF ADOLF | 10 | 78 | 50.00 | 108 | 44.00 | 60 | 05 | 19 | 07 | 60 | 05 | 19 | 490 | 492 | | X | X | BOTT | | |
| 19600007 | PR GUSTAF ADOLF | 11 | 78 | 48.50 | 109 | 39.00 | 60 | 05 | 20 | 09 | 60 | 05 | 20 | 470 | 472 | | X | X | BOTT | | |
| 19600007 | WILKINS ST | 12 | 78 | 18.50 | 114 | 25.00 | 60 | 05 | 23 | 04 | 60 | 05 | 23 | 340 | 344 | | X | X | BOTT | | |
| 19600007 | BALLANTYNE ST | 13 | 77 | 51.50 | 115 | 36.00 | 60 | 05 | 23 | 08 | 60 | 05 | 23 | 160 | 166 | | X | X | BOTT | | |
| 19610003 | NANSEN SD | 1 | 80 | 27.00 | 87 | 23.50 | 61 | 08 | 22 | 17 | 61 | 08 | 22 | 394 | 713 | | X | X | BOTT | | |
| 19610003 | NORWEGIAN BAY | 2 | 77 | 24.00 | 89 | 30.00 | 61 | 08 | 24 | 05 | 61 | 08 | 24 | 75 | 95 | | | X | BOTT | | |
| 19610003 | NORWEGIAN BAY | 3 | 77 | 2.00 | 89 | 39.00 | 61 | 08 | 24 | 13 | 61 | 08 | 24 | 200 | 285 | | | X | BOTT | | |
| 19610003 | SOPHIA CH | 4 | 75 | 53.00 | 95 | 8.00 | 61 | 08 | 28 | 20 | 61 | 08 | 28 | 50 | 55 | | | X | BOTT | 1 | 24 |
| 19610003 | WELLINGTON CH | 28 | 75 | 25.00 | 95 | 35.00 | 61 | 08 | 30 | 02 | 61 | 08 | 30 | 123 | 132 | | | X | BOTT | | |
| 19610003 | WELLINGTON CH | 29 | 75 | 24.00 | 93 | 2.00 | 61 | 08 | 30 | 03 | 61 | 08 | 30 | 148 | 161 | | | X | BOTT | | |
| 19610003 | WELLINGTON CH | 30 | 75 | 23.00 | 93 | 26.00 | 61 | 08 | 30 | 05 | 61 | 08 | 30 | 200 | 250 | | | X | BOTT | | |
| 19610003 | BYAM CH | 31 | 75 | 11.00 | 105 | 22.50 | 61 | 09 | 03 | 01 | 61 | 09 | 03 | 50 | 70 | | | X | BOTT | | |
| 19610003 | BYAM CH | 32 | 75 | 10.40 | 105 | 39.50 | 61 | 09 | 03 | 03 | 61 | 09 | 03 | 50 | 55 | | | X | BOTT | | |
| 19610003 | BYAM CH | 33 | 75 | 8.80 | 105 | 1.90 | 61 | 09 | 03 | 04 | 61 | 09 | 03 | 150 | 160 | | | X | BOTT | | |
| 19610003 | AUSTIN CH | 34 | 75 | 5.30 | 105 | 22.50 | 61 | 09 | 03 | 13 | 61 | 09 | 03 | 100 | 100 | | | X | BOTT | | |
| 19610003 | AUSTIN CH | 35 | 75 | 4.60 | 102 | 31.00 | 61 | 09 | 03 | 15 | 61 | 09 | 03 | 100 | 121 | | | X | BOTT | | |
| 19610003 | AUSTIN CH | 36 | 75 | 5.00 | 101 | 40.00 | 61 | 09 | 03 | 18 | 61 | 09 | 03 | 100 | 112 | | | X | BOTT | | |
| 19610003 | AUSTIN CH | 37 | 75 | 4.50 | 100 | 55.00 | 61 | 09 | 03 | 20 | 61 | 09 | 03 | 75 | 75 | | | X | BOTT | | |
| 19610003 | WELLINGTON CH | 38 | 75 | 25.00 | 92 | 35.00 | 61 | 09 | 09 | 13 | 61 | 09 | 09 | 100 | 146 | | X | X | BOTT | | |
| 19610003 | WELLINGTON CH | 39 | 75 | 24.00 | 93 | 2.00 | 61 | 09 | 09 | 14 | 61 | 09 | 09 | 150 | 176 | | X | X | BOTT | | |
| 19610003 | WELLINGTON CH | 40 | 75 | 23.00 | 93 | 26.00 | 61 | 09 | 09 | 16 | 61 | 09 | 09 | 148 | 272 | | X | X | BOTT | | |
| 19610004 | WELLINGTON CH | 25 | 74 | 41.00 | 93 | 14.00 | 61 | 09 | 07 | 16 | 61 | 09 | 07 | 100 | 128 | | X | X | BOTT | | |
| 19610004 | WELLINGTON CH | 26 | 74 | 41.00 | 92 | 52.00 | 61 | 09 | 07 | 17 | 61 | 09 | 07 | 100 | 137 | | X | X | BOTT | | |
| 19610004 | WELLINGTON CH | 27 | 74 | 41.00 | 92 | 32.00 | 61 | 09 | 07 | 18 | 61 | 09 | 07 | 125 | 144 | | X | X | BOTT | | |
| 19610004 | WELLINGTON CH | 28 | 74 | 41.00 | 92 | 10.00 | 61 | 09 | 07 | 20 | 61 | 09 | 07 | 100 | 130 | | X | X | BOTT | | |
| 19610004 | WELLINGTON CH | 29 | 74 | 41.00 | 91 | 55.00 | 61 | 09 | 07 | 21 | 61 | 09 | 07 | 125 | 141 | | X | X | BOTT | | |

TABLE 2 - TEMPERATURE-SALINITY DATA

| DATASET | AREA | STN | LATITUDE | | LONGITUDE | | START | | | | STOP | | | DEPTHS(M) | | | | | | REPEAT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | DEG | MIN | DEG | MIN | YR | MN | DY | HR | YR | MN | DY | CAST | WATER | C | S | T | INSTR | HR | NO |
| 19610005 | EUREKA SD | 5 | 78 | 36.40 | 87 | 28.00 | 61 | 05 | 08 | 21 | 61 | 05 | 08 | 250 | 253 | | X | X | BOTT | | |
| 19610009 | PR GUSTAF ADOLF | 1 | 78 | 28.00 | 105 | 16.00 | 61 | 04 | 13 | 22 | 61 | 04 | 13 | 456 | 478 | | X | X | BOTT | | |
| 19610009 | PR GUSTAF ADOLF | 2 | 78 | 47.00 | 105 | 31.00 | 61 | 04 | 25 | 21 | 61 | 04 | 25 | 298 | 298 | | X | X | BOTT | | |
| 19610009 | PR GUSTAF ADOLF | 3 | 78 | 35.00 | 105 | 28.00 | 61 | 04 | 30 | 03 | 61 | 04 | 30 | 403 | 403 | | X | X | BOTT | | |
| 19610009 | PR GUSTAF ADOLF | 4 | 78 | 28.00 | 105 | 16.00 | 61 | 05 | 03 | 21 | 61 | 05 | 03 | 462 | 478 | | X | X | BOTT | | |
| 19620005A | PENNY ST | 4 | 76 | 36.70 | 96 | 23.80 | 62 | 07 | 17 | 03 | 62 | 07 | 17 | 60 | NS | | X | X | BOTT | | |
| 19620005B | EUREKA SD | 1 | 80 | 0.00 | 86 | 0.00 | 62 | 07 | 02 | 22 | 62 | 07 | 02 | 50 | 59 | | X | X | BOTT | | |
| 19620005B | EUREKA SD | 2 | 80 | 0.00 | 86 | 0.00 | 62 | 07 | 06 | 15 | 62 | 07 | 06 | 50 | 70 | | X | X | BOTT | | |
| 19620005B | EUREKA SD | 3 | 80 | 0.00 | 86 | 0.00 | 62 | 07 | 09 | 20 | 62 | 07 | 09 | 50 | 56 | | X | X | BOTT | | |
| 19620005B | NANSEN SD | 4 | 81 | 3.00 | 91 | 25.00 | 62 | 07 | 11 | 06 | 62 | 07 | 11 | 25 | 29 | | X | X | BOTT | | |
| 19620005B | EUREKA SD | 5 | 80 | 0.00 | 86 | 0.00 | 62 | 07 | 13 | 21 | 62 | 07 | 13 | 50 | 56 | | X | X | BOTT | | |
| 19620005B | EUREKA SD | 6 | 80 | 0.00 | 86 | 0.00 | 62 | 07 | 16 | 15 | 62 | 07 | 16 | 50 | 59 | | X | X | BOTT | | |
| 19620005B | MASSEY SD | 7 | 79 | 10.00 | 92 | 0.00 | 62 | 07 | 18 | 21 | 62 | 07 | 18 | 50 | 57 | | X | X | BOTT | | |
| 19620005B | EUREKA SD | 8 | 80 | 0.00 | 86 | 0.00 | 62 | 07 | 21 | 20 | 62 | 07 | 21 | 50 | 59 | | X | X | BOTT | | |
| 19620005B | EUREKA SD | 9 | 80 | 0.00 | 86 | 0.00 | 62 | 07 | 25 | 15 | 62 | 07 | 25 | 50 | 66 | | X | X | BOTT | | |
| 19620005B | EUREKA SD | 10 | 80 | 0.00 | 86 | 0.00 | 62 | 07 | 28 | 20 | 62 | 07 | 28 | 50 | 56 | | X | X | BOTT | | |
| 19620005B | EUREKA SD | 11 | 80 | 0.00 | 86 | 0.00 | 62 | 07 | 31 | 06 | 62 | 07 | 31 | 50 | 56 | | X | X | BOTT | | |
| 19620005B | EUREKA SD | 12 | 80 | 0.00 | 86 | 0.00 | 62 | 08 | 04 | 00 | 62 | 08 | 04 | 50 | 51 | | X | X | BOTT | | |
| 19620005B | EUREKA SD | 13 | 80 | 0.00 | 86 | 0.00 | 62 | 08 | 06 | 15 | 62 | 08 | 06 | 50 | 63 | | X | X | BOTT | | |
| 19620005B | EUREKA SD | 14 | 80 | 0.00 | 86 | 0.00 | 62 | 08 | 10 | 01 | 62 | 08 | 10 | 50 | 66 | | X | X | BOTT | | |
| 19620005B | EUREKA SD | 15 | 79 | 55.00 | 85 | 20.00 | 62 | 08 | 11 | 00 | 62 | 08 | 11 | 47 | 48 | | X | X | BOTT | | |
| 19620005B | EUREKA SD | 16 | 80 | 0.00 | 86 | 0.00 | 62 | 08 | 13 | 22 | 62 | 08 | 13 | 50 | 69 | | X | X | BOTT | | |
| 19620005B | EUREKA SD | 17 | 80 | 0.00 | 86 | 0.00 | 62 | 08 | 16 | 18 | 62 | 08 | 16 | 48 | 50 | | X | X | BOTT | | |
| 19620006 | WELLINGTON CH | 10 | 74 | 40.00 | 92 | 0.00 | 62 | 08 | 07 | 07 | 62 | 08 | 07 | 100 | 121 | | X | X | BOTT | | |
| 19620006 | WELLINGTON CH | 11 | 74 | 40.00 | 92 | 43.00 | 62 | 08 | 07 | 08 | 62 | 08 | 07 | 150 | 157 | | X | X | BOTT | | |
| 19620006 | WELLINGTON CH | 12 | 74 | 40.00 | 92 | 21.00 | 62 | 08 | 07 | 10 | 62 | 08 | 07 | 100 | 135 | | X | X | BOTT | | |
| 19620006 | NORWEGIAN BAY | 30 | 77 | 5.00 | 89 | 38.00 | 62 | 08 | 15 | 20 | 62 | 08 | 15 | 300 | 348 | | X | X | BOTT | | |
| 19620006 | GREELY FD | 31 | 80 | 25.00 | 85 | 0.00 | 62 | 08 | 22 | 16 | 62 | 08 | 22 | 600 | 658 | | X | X | BOTT | | |
| 19620006 | GREELY FD | 32 | 81 | 0.00 | 79 | 0.00 | 62 | 08 | 23 | 17 | 62 | 08 | 23 | 275 | 300 | | X | X | BOTT | | |
| 19620006 | GREELY FD | 33 | 80 | 42.00 | 80 | 0.00 | 62 | 08 | 23 | 20 | 62 | 08 | 23 | 350 | 369 | | X | X | BOTT | | |
| 19620006 | NANSEN SD | 34 | 81 | 13.00 | 91 | 15.00 | 62 | 08 | 24 | 08 | 62 | 08 | 24 | 700 | 786 | | X | X | BOTT | | |
| 19620006 | NANSEN SD | 35 | 81 | 10.00 | 90 | 37.00 | 62 | 08 | 24 | 10 | 62 | 08 | 24 | 700 | 713 | | X | X | BOTT | | |
| 19620006 | NANSEN SD | 36 | 81 | 6.00 | 91 | 30.00 | 62 | 08 | 24 | 12 | 62 | 08 | 24 | 600 | 701 | | X | X | BOTT | | |
| 19620006 | NANSEN SD | 37 | 80 | 36.00 | 88 | 50.00 | 62 | 08 | 24 | 19 | 62 | 08 | 24 | 700 | 732 | | X | X | BOTT | | |
| 19620006 | EUREKA SD | 38 | 80 | 10.00 | 87 | 3.00 | 62 | 08 | 24 | 23 | 62 | 08 | 24 | 600 | 618 | | X | X | BOTT | | |
| 19620006 | EUREKA SD | 39 | 79 | 17.00 | 84 | 40.00 | 62 | 08 | 25 | 06 | 62 | 08 | 25 | 200 | 227 | | X | X | BOTT | | |
| 19620006 | EUREKA SD | 40 | 78 | 9.00 | 88 | 8.00 | 62 | 08 | 25 | 15 | 62 | 08 | 25 | 200 | 249 | | X | X | BOTT | | |
| 19620006 | NORWEGIAN BAY | 41 | 77 | 40.00 | 92 | 10.00 | 62 | 08 | 25 | 20 | 62 | 08 | 25 | 350 | 379 | | X | X | BOTT | | |
| 19620006 | BELCHER CH | 42 | 77 | 15.00 | 97 | 14.00 | 62 | 08 | 26 | 10 | 62 | 08 | 26 | 150 | 192 | | X | X | BOTT | | |
| 19620006 | PENNY ST | 43 | 76 | 57.00 | 97 | 44.00 | 62 | 08 | 26 | 13 | 62 | 08 | 26 | 200 | 234 | | X | X | BOTT | | |
| 19620006 | PENNY ST | 44 | 76 | 53.00 | 98 | 24.00 | 62 | 08 | 26 | 14 | 62 | 08 | 26 | 250 | 311 | | X | X | BOTT | | |

TABLE 2 - TEMPERATURE-SALINITY DATA

| DATASET | AREA | STN | LATITUDE | | LONGITUDE | | START | | | | STOP | | | DEPTHS(M) | | | | | | REPEAT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | DEG | MIN | DEG | MIN | YR | MN | DY | HR | YR | MN | DY | CAST | WATER | C | S | T | INSTR | HR | NO |
| 19620006 | PENNY ST | 45 | 76 | 48.00 | 99 | 0.00 | 62 | 08 | 26 | 16 | 62 | 08 | 26 | 450 | 460 | | X | X | BOTT | | |
| 19620006 | WELLINGTON CH | 46 | 75 | 25.00 | 92 | 46.00 | 62 | 08 | 27 | 04 | 62 | 08 | 27 | 150 | 194 | | X | X | BOTT | | |
| 19620006 | WELLINGTON CH | 47 | 75 | 23.00 | 93 | 26.00 | 62 | 08 | 27 | 06 | 62 | 08 | 27 | 250 | 252 | | X | X | BOTT | | |
| 19620006 | AUSTIN CH | 48 | 75 | 6.00 | 101 | 7.00 | 62 | 08 | 28 | 13 | 62 | 08 | 28 | 100 | 132 | | X | X | BOTT | | |
| 19620006 | AUSTIN CH | 49 | 75 | 4.00 | 102 | 15.00 | 62 | 08 | 28 | 15 | 62 | 08 | 28 | 100 | 130 | | X | X | BOTT | | |
| 19620006 | AUSTIN CH | 50 | 75 | 3.00 | 103 | 27.00 | 62 | 08 | 28 | 18 | 62 | 08 | 28 | 100 | 137 | | X | X | BOTT | | |
| 19620006 | KELLETT ST | 55 | 75 | 22.00 | 118 | 5.00 | 62 | 08 | 31 | 01 | 62 | 08 | 31 | 250 | 256 | | X | X | BOTT | | |
| 19630010 | GREELY FD | 1 | 81 | 23.70 | 77 | 10.00 | 63 | 05 | 26 | 22 | 63 | 05 | 26 | 183 | 203 | | X | X | BOTT | | |
| 19630010 | GREELY FD | 2 | 81 | 18.10 | 77 | 51.00 | 63 | 05 | 28 | 17 | 63 | 05 | 28 | 46 | 59 | | X | X | BOTT | | |
| 19630010 | GREELY FD | 3 | 81 | 11.80 | 78 | 31.00 | 63 | 05 | 30 | 00 | 63 | 05 | 30 | 183 | 227 | | X | X | BOTT | | |
| 19630010 | GREELY FD | 4 | 80 | 54.80 | 79 | 7.00 | 63 | 06 | 01 | 04 | 63 | 06 | 01 | 137 | 154 | | X | X | BOTT | | |
| 19630010 | GREELY FD | 5 | 80 | 50.10 | 78 | 14.00 | 63 | 06 | 01 | 21 | 63 | 06 | 01 | 238 | 238 | | X | X | BOTT | | |
| 19630010 | GREELY FD | 6 | 80 | 56.70 | 76 | 0.00 | 63 | 06 | 03 | 01 | 63 | 06 | 03 | 57 | 60 | | X | X | BOTT | | |
| 19630010 | GREELY FD | 7 | 80 | 49.60 | 79 | 23.00 | 63 | 06 | 06 | 04 | 63 | 06 | 06 | 128 | 128 | | X | X | BOTT | | |
| 19630010 | GREELY FD | 8 | 81 | 11.80 | 78 | 31.00 | 63 | 06 | 06 | 10 | 63 | 06 | 06 | 183 | 227 | | X | X | BOTT | | |
| 19630010 | GREELY FD | 9 | 81 | 8.80 | 79 | 14.00 | 63 | 06 | 08 | 01 | 63 | 06 | 08 | 46 | 73 | | X | X | BOTT | | |
| 19630010 | GREELY FD | 10 | 81 | 18.10 | 77 | 51.00 | 63 | 06 | 09 | 12 | 63 | 06 | 09 | 46 | 59 | | X | X | BOTT | | |
| 19630010 | GREELY FD | 11 | 80 | 41.00 | 86 | 55.00 | 63 | 06 | 13 | 00 | 63 | 06 | 13 | 183 | 183 | | X | X | BOTT | | |
| 19630010 | GREELY FD | 18 | 81 | 25.50 | 77 | 2.00 | 63 | 06 | 27 | 18 | 63 | 06 | 27 | 183 | 199 | | X | X | BOTT | | |
| 19630010 | GREELY FD | 19 | 81 | 26.00 | 76 | 58.00 | 63 | 06 | 29 | 21 | 63 | 06 | 29 | 119 | 122 | | X | X | BOTT | | |
| 19630010 | GREELY FD | 20 | 81 | 24.00 | 77 | 1.00 | 63 | 06 | 30 | 21 | 63 | 06 | 30 | 82 | 84 | | X | X | BOTT | | |
| 19630010 | GREELY FD | 21 | 81 | 23.20 | 77 | 9.00 | 63 | 07 | 07 | 22 | 63 | 07 | 07 | 53 | 55 | | X | X | BOTT | | |
| 19630010 | GREELY FD | 22 | 81 | 24.20 | 77 | 10.00 | 63 | 07 | 09 | 20 | 63 | 07 | 09 | 104 | 106 | | X | X | BOTT | | |
| 19630010 | GREELY FD | 23 | 81 | 24.00 | 77 | 14.00 | 63 | 07 | 10 | 00 | 63 | 07 | 10 | 177 | 180 | | X | X | BOTT | | |
| 19630010 | GREELY FD | 24 | 81 | 23.00 | 77 | 3.00 | 63 | 07 | 11 | 21 | 63 | 07 | 11 | 60 | 61 | | X | X | BOTT | | |
| 19630010 | GREELY FD | 25 | 81 | 22.00 | 77 | 14.00 | 63 | 07 | 11 | 23 | 63 | 07 | 11 | 29 | 31 | | X | X | BOTT | | |
| 19630010 | GREELY FD | 26 | 81 | 22.50 | 77 | 18.00 | 63 | 07 | 13 | 21 | 63 | 07 | 13 | 130 | 131 | | X | X | BOTT | | |
| 19630010 | GREELY FD | 27 | 81 | 23.30 | 77 | 15.00 | 63 | 07 | 14 | 00 | 63 | 07 | 14 | 227 | 228 | | X | X | BOTT | | |
| 19630010 | GREELY FD | 28 | 81 | 24.20 | 77 | 8.00 | 63 | 07 | 15 | 01 | 63 | 07 | 15 | 79 | 81 | | X | X | BOTT | | |
| 19630010 | GREELY FD | 29 | 81 | 24.60 | 77 | 5.00 | 63 | 08 | 16 | 16 | 63 | 08 | 16 | 18 | 62 | | X | X | BOTT | | |
| 19630010 | GREELY FD | 30 | 81 | 25.40 | 76 | 59.00 | 63 | 08 | 16 | 23 | 63 | 08 | 16 | 60 | 62 | | X | X | BOTT | | |
| 19630010 | GREELY FD | 31 | 81 | 24.20 | 77 | 1.00 | 63 | 08 | 18 | 17 | 63 | 08 | 18 | 110 | 112 | | X | X | BOTT | | |
| 19630010 | GREELY FD | 32 | 81 | 23.80 | 77 | 7.00 | 63 | 08 | 18 | 21 | 63 | 08 | 18 | 142 | 159 | | X | X | BOTT | | |
| 19640004 | BYAM CH | 5 | 75 | 4.00 | 105 | 22.00 | 64 | 08 | 28 | 22 | 64 | 08 | 28 | 250 | 303 | | X | X | BOTT | | |
| 19640004 | BYAM CH | 9 | 75 | 0.00 | 105 | 26.00 | 64 | 09 | 03 | 23 | 64 | 09 | 03 | 200 | 223 | | X | X | BOTT | | |
| 19640005 | PR GUSTAF ADOLF | 1 | 78 | 45.00 | 104 | 51.00 | 64 | 02 | 03 | 01 | 64 | 02 | 03 | 225 | 225 | | X | X | BOTT | | |
| 19640005 | PR GUSTAF ADOLF | 2 | 78 | 45.00 | 104 | 51.00 | 64 | 02 | 10 | 00 | 64 | 02 | 10 | 225 | 225 | | X | X | BOTT | | |
| 19640005 | PR GUSTAF ADOLF | 3 | 78 | 45.00 | 104 | 51.00 | 64 | 02 | 19 | 00 | 64 | 02 | 19 | 225 | 225 | | X | X | BOTT | | |
| 19640008 | GREELY FD | 1 | 81 | 24.60 | 77 | 8.00 | 64 | 05 | 08 | 05 | 64 | 05 | 08 | 50 | 65 | | X | X | BOTT | | |
| 19640008 | GREELY FD | 2 | 81 | 0.00 | 79 | 20.00 | 64 | 05 | 12 | 11 | 64 | 05 | 12 | 145 | 145 | | X | X | BOTT | | |

TABLE 2 - TEMPERATURE-SALINITY DATA

| DATASET | AREA | STN | LATITUDE DEG | LATITUDE MIN | LONGITUDE DEG | LONGITUDE MIN | START YR | START MN | START DY | START HR | STOP YR | STOP MN | STOP DY | DEPTHS(M) CAST | DEPTHS(M) WATER | C | S | T | INSTR | REPEAT HR | REPEAT NO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19640008 | GREELY FD | 3 | 80 | 40.50 | 80 | 31.00 | 64 | 05 | 14 | 07 | 64 | 05 | 14 | 316 | 316 |  | X | X | BOTT |  |  |
| 19640008 | GREELY FD | 4 | 81 | 24.60 | 77 | 8.00 | 64 | 05 | 15 | 09 | 64 | 05 | 15 | 50 | 65 |  | X | X | BOTT |  |  |
| 19640008 | NANSEN SD | 5 | 80 | 42.20 | 86 | 48.00 | 64 | 05 | 19 | 17 | 64 | 05 | 19 | 355 | 355 |  | X | X | BOTT |  |  |
| 19640008 | NANSEN SD | 6 | 81 | 1.10 | 85 | 42.00 | 64 | 05 | 21 | 10 | 64 | 05 | 21 | 199 | 199 |  | X | X | BOTT |  |  |
| 19640008 | NANSEN SD | 7 | 81 | 4.00 | 84 | 50.00 | 64 | 05 | 21 | 19 | 64 | 05 | 21 | 101 | 127 |  | X | X | BOTT |  |  |
| 19640008 | NANSEN SD | 8 | 81 | 8.80 | 86 | 9.00 | 64 | 05 | 22 | 18 | 64 | 05 | 22 | 504 | 505 |  | X | X | BOTT |  |  |
| 19640008 | NANSEN SD | 9 | 81 | 12.20 | 85 | 48.00 | 64 | 05 | 23 | 14 | 64 | 05 | 23 | 501 | 502 |  | X | X | BOTT |  |  |
| 19640008 | GREELY FD | 10 | 81 | 24.10 | 77 | 17.00 | 64 | 05 | 24 | 08 | 64 | 05 | 24 | 170 | 231 |  | X | X | BOTT |  |  |
| 19640008 | NANSEN SD | 11 | 81 | 3.90 | 87 | 1.00 | 64 | 05 | 24 | 18 | 64 | 05 | 24 | 506 | 552 |  | X | X | BOTT |  |  |
| 19640008 | NANSEN SD | 12 | 81 | 23.40 | 89 | 57.00 | 64 | 05 | 29 | 20 | 64 | 05 | 29 | 356 | 357 |  | X | X | BOTT |  |  |
| 19640008 | NANSEN SD | 13 | 81 | 18.10 | 90 | 28.00 | 64 | 05 | 30 | 17 | 64 | 05 | 30 | 158 | 158 |  | X | X | BOTT |  |  |
| 19640008 | GREELY FD | 14 | 81 | 24.10 | 77 | 17.00 | 64 | 05 | 31 | 09 | 64 | 05 | 31 | 100 | 231 |  | X | X | BOTT |  |  |
| 19640008 | NANSEN SD | 15 | 81 | 34.20 | 92 | 35.00 | 64 | 06 | 02 | 08 | 64 | 06 | 02 | 291 | 292 |  | X | X | BOTT |  |  |
| 19640008 | NANSEN SD | 16 | 81 | 28.50 | 93 | 6.00 | 64 | 06 | 02 | 15 | 64 | 06 | 02 | 506 | 507 |  | X | X | BOTT |  |  |
| 19640008 | NANSEN SD | 17 | 81 | 34.00 | 93 | 10.00 | 64 | 06 | 03 | 16 | 64 | 06 | 03 | 404 | 405 |  | X | X | BOTT |  |  |
| 19640008 | NANSEN SD | 18 | 80 | 58.00 | 89 | 40.00 | 64 | 06 | 07 | 01 | 64 | 06 | 07 | 596 | 597 |  | X | X | BOTT |  |  |
| 19640008 | GREELY FD | 19 | 81 | 24.10 | 77 | 17.00 | 64 | 06 | 07 | 12 | 64 | 06 | 07 | 100 | 231 |  | X | X | BOTT |  |  |
| 19640008 | GREELY FD | 20 | 81 | 24.10 | 77 | 17.00 | 64 | 06 | 15 | 06 | 64 | 06 | 15 | 100 | 231 |  | X | X | BOTT |  |  |
| 19640008 | GREELY FD | 21 | 81 | 24.10 | 77 | 17.00 | 64 | 06 | 22 | 11 | 64 | 06 | 22 | 100 | 231 |  | X | X | BOTT |  |  |
| 19640008 | GREELY FD | 22 | 81 | 24.10 | 77 | 17.00 | 64 | 06 | 29 | 12 | 64 | 06 | 29 | 202 | 231 |  | X | X | BOTT |  |  |
| 19640008 | GREELY FD | 23 | 81 | 24.10 | 77 | 17.00 | 64 | 06 | 29 | 21 | 64 | 06 | 29 | 231 | 231 |  | X | X | BOTT |  |  |
| 19640008 | GREELY FD | 24 | 81 | 24.10 | 77 | 17.00 | 64 | 06 | 30 | 02 | 64 | 06 | 30 | 100 | 231 |  | X | X | BOTT |  |  |
| 19640008 | GREELY FD | 25 | 81 | 24.10 | 77 | 17.00 | 64 | 06 | 30 | 14 | 64 | 06 | 30 | 100 | 231 |  | X | X | BOTT |  |  |
| 19640008 | GREELY FD | 26 | 81 | 24.10 | 77 | 16.90 | 64 | 07 | 03 | 16 | 64 | 07 | 03 | 75 | 78 |  | X | X | BOTT |  |  |
| 19640008 | GREELY FD | 27 | 81 | 23.90 | 77 | 15.30 | 64 | 07 | 03 | 19 | 64 | 07 | 03 | 200 | 225 |  | X | X | BOTT |  |  |
| 19640008 | GREELY FD | 28 | 81 | 23.50 | 77 | 12.10 | 64 | 07 | 03 | 23 | 64 | 07 | 03 | 60 | 65 |  | X | X | BOTT |  |  |
| 19640008 | GREELY FD | 29 | 81 | 22.80 | 77 | 6.40 | 64 | 07 | 04 | 02 | 64 | 07 | 04 | 30 | 43 |  | X | X | BOTT |  |  |
| 19640008 | GREELY FD | 30 | 81 | 24.10 | 77 | 17.00 | 64 | 07 | 06 | 17 | 64 | 07 | 06 | 200 | 231 |  | X | X | BOTT |  |  |
| 19640008 | GREELY FD | 31 | 81 | 22.60 | 77 | 4.80 | 64 | 07 | 22 | 09 | 64 | 07 | 22 | 50 | 63 |  | X | X | BOTT |  |  |
| 19640008 | GREELY FD | 32 | 81 | 26.10 | 76 | 59.70 | 64 | 07 | 29 | 11 | 64 | 07 | 29 | 50 | 64 |  | X | X | BOTT |  |  |
| 19640008 | GREELY FD | 33 | 81 | 24.00 | 77 | 13.40 | 64 | 08 | 05 | 14 | 64 | 08 | 05 | 100 | 192 |  | X | X | BOTT |  |  |
| 19640008 | GREELY FD | 34 | 81 | 25.40 | 77 | 0.30 | 64 | 08 | 05 | 17 | 64 | 08 | 05 | 75 | 79 |  | X | X | BOTT |  |  |
| 19640008 | GREELY FD | 35 | 81 | 25.80 | 77 | 2.40 | 64 | 08 | 18 | 15 | 64 | 08 | 18 | 100 | 100 |  | X | X | BOTT |  |  |
| 19640008 | GREELY FD | 36 | 81 | 25.30 | 77 | 0.60 | 64 | 08 | 25 | 08 | 64 | 08 | 25 | 100 | 153 |  | X | X | BOTT |  |  |
| 19650005 | GREELY FD | 1 | 81 | 22.90 | 77 | 17.00 | 65 | 05 | 11 | 20 | 65 | 05 | 11 | 202 | 229 |  | X | X | BOTT |  |  |
| 19650005 | GREELY FD | 2 | 81 | 21.90 | 77 | 15.00 | 65 | 05 | 11 | 23 | 65 | 05 | 11 | 77 | 90 |  | X | X | BOTT |  |  |
| 19650005 | GREELY FD | 3 | 81 | 23.80 | 77 | 19.00 | 65 | 05 | 12 | 02 | 65 | 05 | 12 | 146 | 170 |  | X | X | BOTT |  |  |
| 19650005 | GREELY FD | 4 | 81 | 14.20 | 78 | 8.00 | 65 | 05 | 12 | 23 | 65 | 05 | 12 | 152 | 170 |  | X | X | BOTT |  |  |
| 19650005 | GREELY FD | 5 | 81 | 2.00 | 78 | 57.00 | 65 | 05 | 13 | 16 | 65 | 05 | 13 | 203 | 296 |  | X | X | BOTT |  |  |
| 19650005 | GREELY FD | 6 | 81 | 13.80 | 78 | 5.00 | 65 | 05 | 13 | 19 | 65 | 05 | 13 | 51 | 66 |  | X | X | BOTT |  |  |
| 19650005 | GREELY FD | 7 | 81 | 15.10 | 78 | 13.00 | 65 | 05 | 13 | 22 | 65 | 05 | 13 | 152 | 196 |  | X | X | BOTT |  |  |
| 19650005 | GREELY FD | 8 | 80 | 47.80 | 79 | 10.00 | 65 | 05 | 14 | 16 | 65 | 05 | 14 | 203 | 265 |  | X | X | BOTT |  |  |
| 19650005 | GREELY FD | 9 | 80 | 32.90 | 81 | 13.50 | 65 | 05 | 15 | 20 | 65 | 05 | 15 | 406 | 422 |  | X | X | BOTT |  |  |
| 19650005 | GREELY FD | 10 | 80 | 23.80 | 84 | 11.50 | 65 | 05 | 16 | 16 | 65 | 05 | 16 | 500 | 526 |  | X | X | BOTT |  |  |
| 19650005 | NANSEN FD | 11 | 80 | 41.30 | 86 | 53.50 | 65 | 05 | 17 | 01 | 65 | 05 | 17 | 406 | 406 |  | X | X | BOTT |  |  |
| 19650005 | NANSEN FD | 12 | 81 | 15.50 | 85 | 26.00 | 65 | 05 | 19 | 19 | 65 | 05 | 19 | 406 | 419 |  | X | X | BOTT |  |  |

TABLE 2 - TEMPERATURE-SALINITY DATA

| DATASET | AREA | STN | LATITUDE | | LONGITUDE | | START | | | | STOP | | | DEPTHS(M) | | | | | | REPEAT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | DEG | MIN | DEG | MIN | YR | MN | DY | HR | YR | MN | DY | CAST | WATER | C | S | T | INSTR | HR | NO |
| 19650005 | NANSEN FD | 13 | 81 | 10.00 | 82 | 43.00 | 65 | 05 | 20 | 13 | 65 | 05 | 20 | 76 | 88 | | X | X | BOTT | | |
| 19650005 | NANSEN FD | 14 | 81 | 5.20 | 83 | 22.00 | 65 | 05 | 20 | 19 | 65 | 05 | 20 | 152 | 169 | | X | X | BOTT | | |
| 19650005 | NANSEN FD | 15 | 81 | 4.00 | 86 | 55.00 | 65 | 05 | 20 | 22 | 65 | 05 | 20 | 200 | 258 | | X | X | BOTT | | |
| 19650005 | NANSEN FD | 16 | 81 | 1.60 | 85 | 41.00 | 65 | 05 | 21 | 15 | 65 | 05 | 21 | 151 | 187 | | X | X | BOTT | | |
| 19650005 | NANSEN FD | 17 | 81 | 13.90 | 85 | 50.00 | 65 | 05 | 21 | 18 | 65 | 05 | 21 | 406 | 447 | | X | X | BOTT | | |
| 19650005 | GREELY FD | 18 | 80 | 34.30 | 77 | 59.00 | 65 | 05 | 25 | 23 | 65 | 05 | 25 | 102 | 112 | | X | X | BOTT | | |
| 19650005 | GREELY FD | 19 | 80 | 34.10 | 79 | 36.50 | 65 | 05 | 26 | 22 | 65 | 05 | 26 | 152 | 171 | | X | X | BOTT | | |
| 19650005 | GREELY FD | 20 | 80 | 53.50 | 76 | 37.00 | 65 | 05 | 27 | 16 | 65 | 05 | 27 | 50 | 61 | | X | X | BOTT | | |
| 19650005 | GREELY FD | 21 | 80 | 51.50 | 77 | 55.00 | 65 | 05 | 27 | 22 | 65 | 05 | 27 | 304 | 372 | | X | X | BOTT | | |
| 19650005 | GREELY FD | 22 | 80 | 57.30 | 75 | 54.00 | 65 | 06 | 02 | 22 | 65 | 06 | 02 | 75 | 96 | | X | X | BOTT | | |
| 19650005 | GREELY FD | 23 | 81 | 24.00 | 77 | 5.00 | 65 | 06 | 07 | 01 | 65 | 06 | 07 | 100 | 108 | | X | X | BOTT | | |
| 19650005 | GREELY FD | 24 | 81 | 24.00 | 77 | 5.00 | 65 | 06 | 14 | 20 | 65 | 06 | 14 | 100 | 108 | | X | X | BOTT | | |
| 19650005 | GREELY FD | 25 | 81 | 24.00 | 77 | 5.00 | 65 | 06 | 22 | 19 | 65 | 06 | 22 | 100 | 108 | | X | X | BOTT | | |
| 19650005 | GREELY FD | 26 | 81 | 24.00 | 77 | 5.00 | 65 | 06 | 29 | 19 | 65 | 06 | 29 | 100 | 108 | | X | X | BOTT | | |
| 19650005 | GREELY FD | 27 | 81 | 23.00 | 77 | 20.00 | 65 | 08 | 16 | 01 | 65 | 08 | 16 | 100 | 138 | | X | X | BOTT | | |
| 19660010 | GREELY FD | 1 | 80 | 57.90 | 75 | 32.40 | 66 | 05 | 01 | 17 | 66 | 05 | 01 | 110 | 113 | | X | X | BOTT | | |
| 19660010 | GREELY FD | 2 | 81 | 25.00 | 76 | 50.00 | 66 | 05 | 19 | 20 | 66 | 05 | 19 | 100 | 141 | | X | X | BOTT | | |
| 19660010 | NANSEN SD | 3 | 81 | 2.00 | 85 | 37.00 | 66 | 05 | 21 | 16 | 66 | 05 | 21 | 150 | 165 | | X | X | BOTT | | |
| 19660010 | GREELY FD | 4 | 81 | 25.00 | 76 | 50.00 | 66 | 05 | 22 | 21 | 66 | 05 | 22 | 100 | 141 | | X | X | BOTT | | |
| 19660010 | NANSEN SD | 5 | 81 | 11.00 | 86 | 0.00 | 66 | 05 | 23 | 19 | 66 | 05 | 23 | 600 | 627 | | X | X | BOTT | | |
| 19660010 | NANSEN SD | 6 | 81 | 6.40 | 85 | 50.00 | 66 | 05 | 25 | 16 | 66 | 05 | 25 | 05 | 09 | | X | X | BOTT | | |
| 19660010 | NANSEN SD | 7 | 81 | 6.20 | 85 | 51.00 | 66 | 05 | 25 | 17 | 66 | 05 | 25 | 30 | 33 | | X | X | BOTT | | |
| 19660010 | GREELY FD | 8 | 81 | 25.00 | 76 | 50.00 | 66 | 05 | 25 | 18 | 66 | 05 | 25 | 140 | 141 | | X | X | BOTT | | |
| 19660010 | NANSEN SD | 9 | 81 | 6.00 | 85 | 52.00 | 66 | 05 | 25 | 19 | 66 | 05 | 25 | 30 | 40 | | X | X | BOTT | | |
| 19660010 | NANSEN SD | 10 | 81 | 3.00 | 85 | 39.00 | 66 | 05 | 29 | 16 | 66 | 05 | 29 | 75 | 133 | | X | X | BOTT | | |
| 19660010 | GREELY FD | 11 | 81 | 25.00 | 76 | 50.00 | 66 | 06 | 01 | 02 | 66 | 06 | 01 | 140 | 141 | | X | X | BOTT | | |
| 19660010 | GREELY FD | 12 | 81 | 25.00 | 76 | 50.00 | 66 | 06 | 07 | 02 | 66 | 06 | 07 | 140 | 141 | | X | X | BOTT | | |
| 19660010 | GREELY FD | 16 | 81 | 25.00 | 76 | 50.00 | 66 | 06 | 14 | 17 | 66 | 06 | 14 | 140 | 141 | | X | X | BOTT | | |
| 19660010 | GREELY FD | 18 | 81 | 25.00 | 76 | 50.00 | 66 | 06 | 21 | 20 | 66 | 06 | 21 | 140 | 141 | | X | X | BOTT | | |
| 19660010 | GREELY FD | 19 | 81 | 25.00 | 76 | 50.00 | 66 | 06 | 28 | 20 | 66 | 06 | 28 | 140 | 141 | | X | X | BOTT | | |
| 19660010 | GREELY FD | 20 | 81 | 25.00 | 76 | 50.00 | 66 | 07 | 05 | 18 | 66 | 07 | 05 | 140 | 141 | | X | X | BOTT | | |
| 19660010 | GREELY FD | 21 | 81 | 25.00 | 76 | 50.00 | 66 | 07 | 12 | 17 | 66 | 07 | 12 | 140 | 141 | | X | X | BOTT | | |
| 19660010 | GREELY FD | 22 | 81 | 25.00 | 76 | 50.00 | 66 | 07 | 16 | 15 | 66 | 07 | 16 | 100 | 113 | | X | X | BOTT | | |
| 19660010 | GREELY FD | 23 | 81 | 25.00 | 76 | 50.00 | 66 | 07 | 18 | 15 | 66 | 07 | 18 | 43 | 45 | | X | X | BOTT | | |
| 19660010 | GREELY FD | 24 | 81 | 25.00 | 76 | 50.00 | 66 | 07 | 18 | 17 | 66 | 07 | 18 | 70 | 71 | | X | X | BOTT | | |
| 19660010 | GREELY FD | 25 | 81 | 25.00 | 76 | 50.00 | 66 | 07 | 18 | 19 | 66 | 07 | 18 | 199 | 200 | | X | X | BOTT | | |
| 19670002 | NORWEGIAN BAY | 11 | 77 | 0.00 | 89 | 46.00 | 67 | 08 | 22 | 19 | 67 | 08 | 22 | 200 | 237 | | X | X | BOTT | | |
| 19670002 | NORWEGIAN BAY | 12 | 78 | 6.10 | 88 | 12.00 | 67 | 08 | 23 | 22 | 67 | 08 | 23 | 297 | 305 | | X | X | BOTT | | |
| 19670002 | NANSEN SD | 13 | 80 | 43.80 | 89 | 23.00 | 67 | 08 | 25 | 10 | 67 | 08 | 25 | 700 | 746 | | X | X | BOTT | | |
| 19670002 | NANSEN SD | 14 | 80 | 46.30 | 86 | 37.00 | 67 | 08 | 25 | 14 | 67 | 08 | 25 | 50 | NS | | X | X | BOTT | | |
| 19670002 | NANSEN SD | 15 | 80 | 37.00 | 87 | 14.00 | 67 | 08 | 25 | 16 | 67 | 08 | 25 | 47 | 612 | | X | X | BOTT | | |
| 19670002 | NANSEN SD | 16 | 80 | 31.50 | 87 | 31.00 | 67 | 08 | 25 | 23 | 67 | 08 | 25 | 50 | NS | | X | X | BOTT | | |
| 19670002 | EUREKA SD | 17 | 80 | 13.00 | 87 | 7.00 | 67 | 08 | 26 | 13 | 67 | 08 | 26 | 47 | NS | | X | X | BOTT | | |
| 19670002 | EUREKA SD | 18 | 79 | 58.80 | 85 | 56.80 | 67 | 08 | 26 | 17 | 67 | 08 | 26 | 50 | NS | | X | X | BOTT | | |

## TABLE 2 - TEMPERATURE-SALINITY DATA

| DATASET | AREA | STN | LATITUDE | | LONGITUDE | | START | | | | STOP | | | DEPTHS(M) | | | | | | REPEAT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | DEG | MIN | DEG | MIN | YR | MN | DY | HR | YR | MN | DY | CAST | WATER | C | S | T | INSTR | HR | NO |
| 19670002 | EUREKA SD | 19 | 80 | 0.30 | 86 | 57.00 | 67 | 08 | 27 | 21 | 67 | 08 | 27 | 50 | NS | | X | X | BOTT | | |
| 19670002 | EUREKA SD | 20 | 80 | 1.10 | 86 | 54.00 | 67 | 08 | 27 | 22 | 67 | 08 | 27 | 50 | NS | | X | X | BOTT | | |
| 19670002 | EUREKA SD | 21 | 80 | 1.10 | 86 | 54.00 | 67 | 08 | 27 | 23 | 67 | 08 | 27 | 400 | 466 | | X | X | BOTT | | |
| 19670002 | EUREKA SD | 22 | 80 | 2.00 | 86 | 42.00 | 67 | 08 | 27 | 23 | 67 | 08 | 27 | 50 | NS | | X | X | BOTT | | |
| 19670002 | EUREKA SD | 23 | 80 | 14.00 | 86 | 40.00 | 67 | 08 | 30 | 01 | 67 | 08 | 30 | 48 | NS | | X | X | BOTT | | |
| 19670002 | EUREKA SD | 24 | 80 | 14.30 | 87 | 5.00 | 67 | 08 | 30 | 02 | 67 | 08 | 30 | 50 | NS | | X | X | BOTT | | |
| 19670002 | EUREKA SD | 25 | 80 | 14.20 | 87 | 28.00 | 67 | 08 | 30 | 02 | 67 | 08 | 30 | 50 | NS | | X | X | BOTT | | |
| 19670002 | NANSEN SD | 26 | 80 | 28.00 | 88 | 4.00 | 67 | 08 | 30 | 10 | 67 | 08 | 30 | 50 | NS | | X | X | BOTT | | |
| 19670002 | NANSEN SD | 27 | 80 | 33.20 | 87 | 51.00 | 67 | 08 | 30 | 11 | 67 | 08 | 30 | 50 | 841 | | X | X | BOTT | | |
| 19670002 | NANSEN SD | 28 | 80 | 38.50 | 87 | 38.00 | 67 | 08 | 30 | 11 | 67 | 08 | 30 | 50 | NS | | X | X | BOTT | | |
| 19670002 | NANSEN SD | 29 | 80 | 41.20 | 86 | 55.00 | 67 | 08 | 30 | 13 | 67 | 08 | 30 | 50 | NS | | X | X | BOTT | | |
| 19670002 | NANSEN SD | 30 | 80 | 41.20 | 86 | 50.00 | 67 | 08 | 30 | 13 | 67 | 08 | 30 | 50 | NS | | X | X | BOTT | | |
| 19670002 | NANSEN SD | 31 | 80 | 41.20 | 86 | 41.00 | 67 | 08 | 30 | 13 | 67 | 08 | 30 | 50 | NS | | X | X | BOTT | | |
| 19670002 | GREELY FD | 32 | 80 | 32.00 | 85 | 43.00 | 67 | 08 | 30 | 15 | 67 | 08 | 30 | 50 | NS | | X | X | BOTT | | |
| 19670002 | GREELY FD | 33 | 80 | 30.80 | 84 | 13.00 | 67 | 08 | 30 | 17 | 67 | 08 | 30 | 50 | NS | | X | X | BOTT | | |
| 19670002 | GREELY FD | 34 | 80 | 25.50 | 84 | 5.00 | 67 | 08 | 30 | 17 | 67 | 08 | 30 | 50 | NS | | X | X | BOTT | | |
| 19670002 | GREELY FD | 35 | 80 | 28.40 | 84 | 12.00 | 67 | 08 | 30 | 18 | 67 | 08 | 30 | 50 | NS | | X | X | BOTT | | |
| 19670002 | GREELY FD | 36 | 80 | 26.50 | 85 | 48.00 | 67 | 08 | 30 | 19 | 67 | 08 | 30 | 50 | NS | | X | X | BOTT | | |
| 19670002 | GREELY FD | 37 | 80 | 22.50 | 85 | 15.00 | 67 | 08 | 30 | 20 | 67 | 08 | 30 | 50 | NS | | X | X | BOTT | | |
| 19670002 | GREELY FD | 38 | 80 | 17.50 | 85 | 15.00 | 67 | 08 | 31 | 22 | 67 | 08 | 31 | 50 | NS | | X | X | BOTT | | |
| 19670002 | EUREKA SD | 39 | 79 | 52.00 | 86 | 34.00 | 67 | 09 | 01 | 02 | 67 | 09 | 01 | 50 | NS | | X | X | BOTT | | |
| 19670002 | EUREKA SD | 40 | 79 | 52.00 | 86 | 47.00 | 67 | 09 | 01 | 02 | 67 | 09 | 01 | 50 | NS | | X | X | BOTT | | |
| 19670002 | EUREKA SD | 41 | 79 | 52.00 | 87 | 2.00 | 67 | 09 | 01 | 02 | 67 | 09 | 01 | 50 | NS | | X | X | BOTT | | |
| 19670002 | NORWEGIAN BAY | 42 | 78 | 6.00 | 88 | 12.00 | 67 | 09 | 01 | 13 | 67 | 09 | 01 | 50 | NS | | X | X | BOTT | | |
| 19670002 | WELLINGTON CH | 62 | 74 | 56.50 | 92 | 33.00 | 67 | 09 | 09 | 14 | 67 | 09 | 09 | 150 | 164 | | X | X | BOTT | | |
| 19670002 | WELLINGTON CH | 63 | 74 | 56.50 | 92 | 33.00 | 67 | 09 | 09 | 14 | 67 | 09 | 09 | 50 | 164 | | X | X | BOTT | | |
| 19670002 | WELLINGTON CH | 64 | 74 | 57.00 | 92 | 14.00 | 67 | 09 | 09 | 15 | 67 | 09 | 09 | 50 | 148 | | X | X | BOTT | | |
| 19670002 | WELLINGTON CH | 65 | 74 | 54.20 | 93 | 12.00 | 67 | 09 | 09 | 17 | 67 | 09 | 09 | 48 | 212 | | X | X | BOTT | | |
| 19670005 | GREELY FD | 1 | 80 | 57.50 | 75 | 34.00 | 67 | 04 | 19 | 13 | 67 | 04 | 19 | 65 | 68 | | X | X | BOTT | | |
| 19670005 | NANSEN SD | 2 | 81 | 3.50 | 87 | 2.00 | 67 | 05 | 20 | 05 | 67 | 05 | 20 | 100 | 550 | | X | X | BOTT | | |
| 19670005 | EUREKA SD | 12 | 80 | 9.20 | 86 | 52.00 | 67 | 05 | 28 | 16 | 67 | 05 | 28 | 200 | NS | | X | X | BOTT | | |
| 19670005 | NANSEN SD | 24 | 81 | 2.70 | 85 | 31.00 | 67 | 06 | 03 | 19 | 67 | 06 | 03 | 150 | 153 | | X | X | BOTT | | |
| 19670005 | NANSEN SD | 28 | 81 | 2.70 | 85 | 31.00 | 67 | 06 | 09 | 19 | 67 | 06 | 09 | 150 | 154 | | X | X | BOTT | | |
| 19670005 | NANSEN SD | 38 | 81 | 1.40 | 85 | 34.00 | 67 | 06 | 25 | 19 | 67 | 06 | 25 | 190 | 192 | | X | X | BOTT | | |
| 19670005 | NANSEN SD | 40 | 81 | 7.60 | 85 | 58.50 | 67 | 06 | 28 | 19 | 67 | 06 | 28 | 75 | 85 | | X | X | BOTT | | |
| 19670005 | NANSEN SD | 42 | 81 | 2.70 | 85 | 31.00 | 67 | 07 | 08 | 17 | 67 | 07 | 08 | 150 | 154 | | X | X | BOTT | | |
| 19670005 | GREELY FD | 44 | 81 | 24.00 | 76 | 55.00 | 67 | 07 | 19 | 16 | 67 | 07 | 19 | 20 | 34 | | X | X | BOTT | | |
| 19670005 | GREELY FD | 45 | 81 | 24.00 | 76 | 55.00 | 67 | 07 | 22 | 20 | 67 | 07 | 22 | 20 | 22 | | X | X | BOTT | | |
| 19670005 | GREELY FD | 46 | 81 | 24.00 | 76 | 55.00 | 67 | 07 | 25 | 01 | 67 | 07 | 25 | 10 | 14 | | X | X | BOTT | | |
| 19670005 | GREELY FD | 47 | 81 | 24.00 | 76 | 55.00 | 67 | 08 | 01 | 13 | 67 | 08 | 01 | 15 | 18 | | X | X | BOTT | | |
| 19670005 | GREELY FD | 48 | 81 | 24.00 | 76 | 55.00 | 67 | 08 | 11 | 17 | 67 | 08 | 11 | 25 | 25 | | X | X | BOTT | | |
| 19670005 | GREELY FD | 49 | 81 | 24.00 | 76 | 55.00 | 67 | 08 | 20 | 18 | 67 | 08 | 20 | 20 | 24 | | X | X | BOTT | | |
| 19680001 | NORWEGIAN BAY | 6 | 77 | 28.00 | 89 | 13.00 | 68 | 08 | 18 | 17 | 68 | 08 | 18 | 300 | NS | | X | X | BOTT | | |
| 19680001 | NORWEGIAN BAY | 7 | 76 | 53.60 | 89 | 49.00 | 68 | 08 | 20 | 01 | 68 | 08 | 20 | 125 | NS | | X | X | BOTT | | |

TABLE 2 - TEMPERATURE-SALINITY DATA

| DATASET | AREA | STN | LATITUDE | | LONGITUDE | | START | | | | STOP | | | DEPTHS(M) | | | | | | REPEAT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | DEG | MIN | DEG | MIN | YR | MN | DY | HR | YR | MN | DY | CAST | WATER | C | S | T | INSTR | HR | NO |
| 19680001 | WELLINGTON CH | 20 | 74 | 45.00 | 92 | 44.00 | 68 | 09 | 08 | 16 | 68 | 09 | 08 | 75 | NS | | X | X | BOTT | | |
| 19680001 | WELLINGTON CH | 19 | 74 | 50.80 | 92 | 44.00 | 68 | 09 | 08 | 19 | 68 | 09 | 08 | 75 | NS | | X | X | BOTT | | |
| 19680015 | NANSEN SD | 1 | 81 | 26.50 | 92 | 43.00 | 68 | 05 | 11 | 17 | 68 | 05 | 11 | 60 | NS | | X | X | BOTT | | |
| 19680015 | NANSEN SD | 2 | 81 | 26.50 | 92 | 43.00 | 68 | 05 | 13 | 18 | 68 | 05 | 13 | 450 | NS | | X | X | BOTT | | |
| 19680015 | NANSEN SD | 3 | 81 | 26.50 | 92 | 43.00 | 68 | 05 | 22 | 05 | 68 | 05 | 22 | 470 | NS | | X | X | BOTT | | |
| 19680015 | NANSEN SD | 4 | 81 | 26.50 | 92 | 43.00 | 68 | 05 | 26 | 18 | 68 | 05 | 26 | 470 | NS | | X | X | BOTT | | |
| 19680015 | NANSEN SD | 5 | 81 | 26.50 | 92 | 43.00 | 68 | 05 | 28 | 13 | 68 | 05 | 28 | 470 | NS | | X | X | BOTT | | |
| 19680015 | NANSEN SD | 6 | 81 | 26.50 | 92 | 43.00 | 68 | 05 | 29 | 20 | 68 | 05 | 29 | 400 | NS | | X | X | BOTT | | |
| 19680015 | NANSEN SD | | 81 | 26.50 | 92 | 43.00 | 68 | 06 | 01 | 14 | 68 | 06 | 15 | 470 | NS | | X | X | BOTT | 24 | 15 |
| 19690014 | GREELY FD | 101 | 80 | 35.00 | 79 | 32.00 | 69 | 03 | NS | NS | 69 | 03 | NS | 187 | NS | X | | X | GLDL | | |
| 19690014 | GREELY FD | 102 | 80 | 35.00 | 79 | 26.00 | 69 | 03 | NS | NS | 69 | 03 | NS | 506 | NS | X | | X | GLDL | | |
| 19690014 | GREELY FD | 103 | 80 | 35.00 | 79 | 32.00 | 69 | 03 | NS | NS | 69 | 03 | NS | 510 | NS | X | | X | GLDL | | |
| 19690015 | GREELY FD | 1 | 80 | 36.00 | 80 | 0.00 | 69 | 08 | 12 | NS | 69 | 08 | 12 | 20 | NS | | X | X | BOTT | | |
| 19690015 | GREELY FD | 1 | 80 | 36.00 | 80 | 0.00 | 69 | 08 | 17 | NS | 69 | 08 | 17 | 35 | NS | | X | X | BOTT | | |
| 19690015 | GREELY FD | 1 | 80 | 36.00 | 80 | 0.00 | 69 | 08 | 23 | NS | 69 | 08 | 23 | 35 | NS | | X | X | BOTT | | |
| 19690015 | GREELY FD | 1 | 80 | 36.00 | 80 | 0.00 | 69 | 09 | 05 | NS | 69 | 09 | 05 | 35 | NS | | X | X | BOTT | | |
| 19690015 | GREELY FD | 1 | 80 | 36.00 | 80 | 0.00 | 69 | 09 | 19 | NS | 69 | 09 | 19 | 05 | NS | | X | X | BOTT | | |
| 19700017 | GREELY FD | 1 | 80 | 36.00 | 79 | 33.00 | 70 | 03 | 12 | NS | 70 | 03 | 12 | 110 | 142 | X | | X | GLDL | | |
| 19700017 | GREELY FD | 2 | 80 | 33.50 | 79 | 32.50 | 70 | 03 | 14 | NS | 70 | 03 | 14 | 300 | 384 | X | | X | GLDL | | |
| 19700017 | GREELY FD | 3 | 80 | 34.75 | 79 | 42.50 | 70 | 03 | 15 | NS | 70 | 03 | 15 | 150 | 174 | X | | X | GLDL | | |
| 19700017 | GREELY FD | 3 | 80 | 34.75 | 79 | 42.50 | 70 | 03 | 19 | NS | 70 | 03 | 19 | 150 | 174 | X | | X | GLDL | | |
| 19700017 | GREELY FD | 4 | 80 | 35.00 | 80 | 33.00 | 70 | 03 | 20 | NS | 70 | 03 | 20 | 500 | 604 | X | | X | GLDL | | |
| 19700017 | GREELY FD | 5 | 80 | 29.50 | 81 | 17.00 | 70 | 03 | 20 | NS | 70 | 03 | 20 | 400 | 521 | X | | X | GLDL | | |
| 19700017 | GREELY FD | 5 | 80 | 29.50 | 81 | 17.00 | 70 | 03 | 21 | NS | 70 | 03 | 21 | 350 | 521 | X | | X | GLDL | | |
| 19700017 | GREELY FD | 6 | 80 | 36.42 | 81 | 21.00 | 70 | 03 | 22 | NS | 70 | 03 | 22 | 350 | 415 | X | | X | GLDL | | |
| 19700017 | GREELY FD | 7 | 80 | 33.67 | 81 | 30.00 | 70 | 03 | 22 | NS | 70 | 03 | 22 | 400 | 521 | X | | X | GLDL | | |
| 19700017 | GREELY FD | 8 | 80 | 29.00 | 82 | 7.50 | 70 | 03 | 24 | NS | 70 | 03 | 24 | 400 | 567 | X | | X | GLDL | | |
| 19700017 | GREELY FD | 9 | 80 | 27.42 | 82 | 57.50 | 70 | 03 | 24 | NS | 70 | 03 | 24 | 500 | 644 | X | | X | GLDL | | |
| 19700017 | GREELY FD | 10 | 80 | 28.42 | 84 | 45.00 | 70 | 03 | 26 | NS | 70 | 03 | 26 | 500 | 640 | X | | X | GLDL | | |
| 19700017 | GREELY FD | 9 | 80 | 27.42 | 82 | 57.50 | 70 | 03 | 27 | NS | 70 | 03 | 27 | 500 | 644 | X | | X | GLDL | | |
| 19700017 | GREELY FD | 6 | 80 | 36.42 | 81 | 21.00 | 70 | 03 | 28 | NS | 70 | 03 | 28 | 350 | 415 | X | | X | GLDL | | |
| 19700017 | GREELY FD | 8 | 80 | 29.00 | 82 | 7.50 | 70 | 03 | 28 | NS | 70 | 03 | 28 | 400 | 567 | X | | X | GLDL | | |
| 19700017 | GREELY FD | 3 | 80 | 34.75 | 79 | 42.50 | 70 | 03 | 29 | NS | 70 | 03 | 29 | 150 | 174 | X | | X | GLDL | | |
| 19700017 | GREELY FD | 4 | 80 | 35.00 | 80 | 33.00 | 70 | 03 | 29 | NS | 70 | 03 | 29 | 500 | 604 | X | | X | GLDL | | |
| 19700017 | GREELY FD | 11 | 80 | 35.00 | 79 | 7.00 | 70 | 03 | 30 | NS | 70 | 03 | 30 | 400 | 485 | X | | X | GLDL | | |
| 19700017 | GREELY FD | 1 | 80 | 36.00 | 79 | 33.00 | 70 | 04 | 06 | NS | 70 | 04 | 06 | 110 | 142 | X | | X | GLDL | | |
| 19700018 | D'IBERVILLE FD | | 79 | 40.00 | 80 | 34.00 | 70 | 08 | 13 | NS | 70 | 08 | 13 | NS | NS | X | | X | THER | | |

## TABLE 2 - TEMPERATURE-SALINITY DATA

| DATASET | AREA | STN | LATITUDE DEG | LATITUDE MIN | LONGITUDE DEG | LONGITUDE MIN | START YR | START MN | START DY | START HR | STOP YR | STOP MN | STOP DY | DEPTHS(M) CAST | DEPTHS(M) WATER | C | S | T | INSTR | REPEAT HR | REPEAT NO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19710015 | GREELY FD | 1 | 80 | 34.75 | 79 | 29.00 | 71 | 03 | 17 | 22 | 71 | 03 | 17 | 415 | 476 | X |  | X | GLDL |  |  |
| 19710015 | GREELY FD | 1 | 80 | 34.75 | 79 | 29.00 | 71 | 03 | 18 | 16 | 71 | 03 | 18 | 412 | 476 | X |  | X | GLDL |  |  |
| 19710015 | GREELY FD | 1 | 80 | 34.75 | 79 | 29.00 | 71 | 03 | 18 | 21 | 71 | 03 | 18 | 405 | 476 | X |  | X | GLDL |  |  |
| 19710015 | GREELY FD | 1 | 80 | 34.75 | 79 | 29.00 | 71 | 03 | 19 | 21 | 71 | 03 | 19 | 343 | 476 | X |  | X | GLDL |  |  |
| 19710015 | GREELY FD | 1 | 80 | 34.75 | 79 | 29.00 | 71 | 03 | 30 | 19 | 71 | 03 | 30 | 411 | 476 | X |  | X | GLDL |  |  |
| 19710015 | GREELY FD | 1 | 80 | 34.75 | 79 | 29.00 | 71 | 03 | 30 | 20 | 71 | 03 | 30 | 152 | 476 | X |  | X | GLDL |  |  |
| 19710015 | GREELY FD | 1 | 80 | 34.75 | 79 | 29.00 | 71 | 03 | 30 | 21 | 71 | 03 | 30 | 412 | 476 | X |  | X | GLDL |  |  |
| 19710015 | GREELY FD | 1 | 80 | 34.75 | 79 | 29.00 | 71 | 03 | 30 | 22 | 71 | 03 | 30 | 150 | 476 | X |  | X | GLDL |  |  |
| 19710015 | GREELY FD | 1 | 80 | 34.75 | 79 | 29.00 | 71 | 03 | 31 | 16 | 71 | 03 | 31 | 454 | 476 | X |  | X | GLDL |  |  |
| 19710015 | GREELY FD | 1 | 80 | 34.75 | 79 | 29.00 | 71 | 03 | 31 | 20 | 71 | 03 | 31 | 410 | 476 | X |  | X | GLDL |  |  |
| 19710015 | GREELY FD | 1 | 80 | 34.75 | 79 | 29.00 | 71 | 03 | 31 | 21 | 71 | 03 | 31 | 152 | 476 | X |  | X | GLDL | 0 | 2 |
| 19710015 | GREELY FD | 1 | 80 | 34.00 | 78 | 5.00 | 71 | 03 | 31 | 21 | 71 | 03 | 31 | 170 | 197 | X |  | X | GLDL |  |  |
| 19720011 | WELLINGTON CH | 2 | 74 | 44.50 | 93 | 14.00 | 72 | 09 | 28 | 16 | 72 | 09 | 28 | 130 | 130 | X |  | X | BOTT |  |  |
| 19720011 | WELLINGTON CH | 3 | 74 | 45.00 | 92 | 44.00 | 72 | 09 | 28 | 19 | 72 | 09 | 28 | 100 | 100 | X |  | X | BOTT |  |  |
| 19720011 | WELLINGTON CH | 4 | 74 | 46.00 | 92 | 10.00 | 72 | 09 | 28 | 19 | 72 | 09 | 28 | 60 | 60 | X |  | X | BOTT |  |  |
| 19720023 | D'IBERVILLE FD |  | 79 | 40.00 | 80 | 34.00 | 72 | 08 | 20 | NS | 72 | 09 | 11 | 12 | NS |  |  | X | THERM |  |  |
| 19730006 | WELLINGTON CH | 1 | 74 | 47.00 | 93 | 11.00 | 73 | 04 | 23 | 20 | 73 | 04 | 23 | 136 | NS | X |  | X | GLDL |  |  |
| 19730006 | WELLINGTON CH | 2 | 74 | 47.00 | 92 | 58.00 | 73 | 04 | 23 | 20 | 73 | 04 | 23 | 150 | NS | X |  | X | GLDL |  |  |
| 19730006 | WELLINGTON CH | 3 | 74 | 47.00 | 92 | 43.00 | 73 | 04 | 23 | 21 | 73 | 04 | 23 | 133 | NS | X |  | X | GLDL |  |  |
| 19730006 | WELLINGTON CH | 4 | 74 | 47.00 | 92 | 31.00 | 73 | 04 | 23 | 21 | 73 | 04 | 23 | 105 | NS | X |  | X | GLDL |  |  |
| 19730006 | WELLINGTON CH | 5 | 74 | 47.00 | 92 | 19.00 | 73 | 04 | 23 | 22 | 73 | 04 | 23 | 78 | NS | X |  | X | GLDL |  |  |
| 19730008 | WELLINGTON CH | 6 | 74 | 48.00 | 92 | 6.00 | 73 | 08 | 28 | 19 | 73 | 08 | 28 | 65 | NS | X |  | X | GLDL |  |  |
| 19730008 | WELLINGTON CH | 7 | 74 | 48.00 | 92 | 25.00 | 73 | 08 | 28 | 19 | 73 | 08 | 28 | 99 | NS | X |  | X | GLDL |  |  |
| 19730008 | WELLINGTON CH | 8 | 74 | 48.00 | 92 | 45.00 | 73 | 08 | 28 | 20 | 73 | 08 | 28 | 118 | NS | X |  | X | GLDL |  |  |
| 19730008 | WELLINGTON CH | 9 | 74 | 48.00 | 93 | 5.00 | 73 | 08 | 28 | 20 | 73 | 08 | 28 | 162 | NS | X |  | X | GLDL |  |  |
| 19730008 | WELLINGTON CH | 10 | 74 | 48.00 | 93 | 18.00 | 73 | 08 | 28 | 21 | 73 | 08 | 28 | 118 | NS | X |  | X | GLDL |  |  |
| 19730013 | GREELY FD | 703 | 80 | 35.50 | 79 | 34.00 | 73 | 03 | 31 | 17 | 73 | 03 | 31 | 160 | 166 | X |  | X | GLDL |  |  |
| 19730013 | GREELY FD | 710 | 80 | 35.50 | 79 | 34.00 | 73 | 04 | 02 | 17 | 73 | 04 | 02 | 160 | 166 | X |  | X | GLDL | 0 | 3 |
| 19730013 | GREELY FD | 711 | 80 | 35.50 | 79 | 34.00 | 73 | 04 | 02 | 22 | 73 | 04 | 02 | 160 | 166 | X |  | X | GLDL |  |  |
| 19730013 | GREELY FD | 713 | 80 | 35.50 | 79 | 34.00 | 73 | 04 | 03 | 17 | 73 | 04 | 03 | 160 | 166 | X |  | X | GLDL |  |  |
| 19730013 | GREELY FD | 716 | 80 | 34.00 | 79 | 33.00 | 73 | 04 | 04 | 21 | 73 | 04 | 04 | 496 | 519 | X |  | X | GLDL |  |  |
| 19730013 | GREELY FD | 718 | 80 | 35.50 | 79 | 34.00 | 73 | 04 | 05 | 17 | 73 | 04 | 05 | 151 | 166 | X |  | X | GLDL |  |  |
| 19730013 | GREELY FD | 719 | 80 | 35.50 | 79 | 34.00 | 73 | 04 | 06 | 16 | 73 | 04 | 06 | 159 | 166 | X |  | X | GLDL |  |  |
| 19730013 | GREELY FD | 719 | 80 | 35.50 | 79 | 34.00 | 73 | 04 | 06 | 17 | 73 | 04 | 06 | 160 | 166 | X |  | X | GLDL |  |  |
| 19730013 | GREELY FD | 722 | 80 | 35.50 | 78 | 18.00 | 73 | 04 | 06 | 22 | 73 | 04 | 06 | 179 | 184 | X |  | X | GLDL |  |  |
| 19730013 | GREELY FD | 720 | 80 | 35.50 | 79 | 34.00 | 73 | 04 | 07 | 16 | 73 | 04 | 07 | 160 | 166 | X |  | X | GLDL |  |  |
| 19730013 | GREELY FD | 720 | 80 | 35.50 | 79 | 34.00 | 73 | 04 | 07 | 17 | 73 | 04 | 07 | 161 | 166 | X |  | X | GLDL |  |  |

TABLE 2 - TEMPERATURE-SALINITY DATA

| DATASET | AREA | STN | LATITUDE | | LONGITUDE | | START | | | | STOP | | | DEPTHS(M) | | | | | | REPEAT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | DEG | MIN | DEG | MIN | YR | MN | DY | HR | YR | MN | DY | CAST | WATER | C | S | T | INSTR | HR | NO |
| 19730013 | GREELY FD | 723 | 80 | 35.00 | 78 | 42.00 | 73 | 04 | 07 | 17 | 73 | 04 | 07 | 166 | 384 | X | | X | GLDL | | |
| 19730013 | GREELY FD | 724 | 80 | 35.00 | 78 | 42.00 | 73 | 04 | 07 | 18 | 73 | 04 | 07 | 146 | 384 | X | | X | GLDL | | |
| 19730013 | GREELY FD | 721 | 80 | 35.50 | 79 | 34.00 | 73 | 04 | 07 | 20 | 73 | 04 | 07 | 161 | 166 | X | | X | GLDL | | |
| 19730013 | GREELY FD | 721 | 80 | 35.50 | 79 | 34.00 | 73 | 04 | 08 | 00 | 73 | 04 | 08 | 78 | 166 | X | | X | GLDL | | |
| 19730013 | GREELY FD | 728 | 80 | 35.50 | 79 | 34.00 | 73 | 04 | 09 | 17 | 73 | 04 | 09 | 161 | 166 | X | | X | GLDL | | |
| 19730013 | GREELY FD | 748 | 80 | 34.00 | 80 | 28.00 | 73 | 04 | 15 | 17 | 73 | 04 | 15 | 501 | 601 | X | | X | GLDL | | |
| 19730013 | GREELY FD | 749 | 80 | 34.00 | 80 | 28.00 | 73 | 04 | 15 | 20 | 73 | 04 | 15 | 300 | 601 | X | | X | GLDL | | |
| 19730013 | GREELY FD | 757 | 80 | 35.50 | 79 | 34.00 | 73 | 04 | 16 | 16 | 73 | 04 | 16 | 159 | 166 | X | | X | GLDL | | |
| 19730013 | GREELY FD | 759 | 80 | 35.50 | 79 | 34.00 | 73 | 04 | 16 | 21 | 73 | 04 | 16 | 160 | 166 | X | | X | GLDL | | |
| 19730013 | GREELY FD | 766 | 80 | 35.50 | 79 | 34.00 | 73 | 04 | 18 | 21 | 73 | 04 | 18 | 158 | 166 | X | | X | GLDL | | |
| 19730013 | GREELY FD | 770 | 80 | 35.50 | 79 | 34.00 | 73 | 04 | 20 | 17 | 73 | 04 | 20 | 160 | 166 | X | | X | GLDL | | |
| 19730013 | GREELY FD | 711 | 80 | 35.50 | 79 | 34.00 | 73 | 04 | 21 | 17 | 73 | 04 | 21 | 160 | 166 | X | | X | GLDL | | |
| 19730015 | D'IBERVILLE FD | | 80 | 35.50 | 79 | 32.00 | 73 | 06 | 30 | NS | 74 | 06 | 19 | 2.5 | NS | | | X | THERM | | |
| 19740014A | AUSTIN CH | 2 | 75 | 28.00 | 103 | 45.00 | 74 | 05 | 14 | NS | 74 | 05 | 14 | 75 | NS | | X | X | BOTT | | |
| 19740014A | AUSTIN CH | 3 | 75 | 32.00 | 102 | 50.00 | 74 | 05 | NS | NS | 74 | 05 | NS | 00 | NS | | X | X | BOTT | | |
| 19740018 | MACLEAN ST | 3 | 78 | 0.00 | 101 | 15.00 | 74 | 07 | 08 | NS | 74 | 07 | 08 | 58 | 262 | X | | X | NS | | |
| 19740018 | MACLEAN ST | 4 | 77 | 49.00 | 100 | 47.00 | 74 | 07 | 08 | NS | 74 | 07 | 08 | 58 | 230 | X | | X | NS | | |
| 19740018 | MACLEAN ST | 7 | 78 | 5.00 | 101 | 6.00 | 74 | 07 | 08 | NS | 74 | 07 | 08 | 58 | 60 | X | | X | NS | | |
| 19740025 | GREELY FD | 934 | 80 | 34.70 | 79 | 25.00 | 74 | 02 | 16 | NS | 74 | 02 | 16 | 434 | 519 | X | | X | GLDL | | |
| 19740025 | GREELY FD | 910 | 80 | 34.70 | 79 | 25.00 | 74 | 03 | 30 | 21 | 74 | 03 | 30 | 403 | 519 | X | | X | GLDL | | |
| 19740025 | GREELY FD | 913 | 80 | 34.70 | 79 | 25.00 | 74 | 03 | 31 | 15 | 74 | 03 | 31 | 504 | 519 | X | | X | GLDL | | |
| 19740025 | GREELY FD | 923 | 80 | 34.40 | 79 | 42.00 | 74 | 04 | 01 | 19 | 74 | 04 | 01 | 182 | 203 | X | | X | GLDL | | |
| 19740025 | GREELY FD | 936 | 80 | 34.60 | 79 | 12.50 | 74 | 04 | 02 | 20 | 74 | 04 | 02 | 443 | 493 | X | | X | GLDL | | |
| 19740025 | GREELY FD | 937 | 80 | 34.80 | 78 | 19.20 | 74 | 04 | 05 | 01 | 74 | 04 | 05 | 153 | 199 | X | | X | GLDL | | |
| 19740025 | GREELY FD | 940 | 80 | 35.50 | 78 | 43.00 | 74 | 04 | 05 | 21 | 74 | 04 | 05 | 306 | NS | X | | X | GLDL | | |
| 19740025 | GREELY FD | 963 | 80 | 34.70 | 79 | 25.00 | 74 | 04 | 09 | 19 | 74 | 04 | 09 | 509 | 519 | X | | X | GLDL | | |
| 19740025 | GREELY FD | 1 | 80 | 34.40 | 79 | 44.50 | 74 | 04 | 14 | NS | 74 | 07 | 23 | 01 | 221 | | | X | RCM4/m | | |
| 19740025 | GREELY FD | 1 | 80 | 34.40 | 79 | 44.50 | 74 | 04 | 14 | NS | 74 | 07 | 23 | 220 | 221 | | | X | RCM4/m | | |
| 19740025 | GREELY FD | 3 | 80 | 32.90 | 79 | 44.50 | 74 | 04 | 15 | NS | 74 | 07 | 23 | 01 | 354 | | | X | RCM4/m | | |
| 19740025 | GREELY FD | 3 | 80 | 32.90 | 79 | 44.50 | 74 | 04 | 15 | NS | 74 | 07 | 23 | 353 | 354 | | | X | RCM4/m | | |
| 19740025 | GREELY FD | 2 | 80 | 33.60 | 79 | 44.50 | 74 | 04 | 17 | NS | 74 | 07 | 23 | 208 | 209 | | | X | RCM4/m | | |
| 19740025 | GREELY FD | 2 | 80 | 33.60 | 79 | 44.50 | 74 | 04 | 17 | NS | 74 | 07 | 23 | 01 | 209 | | | X | RCM4/m | | |
| 19740025 | GREELY FD | 1050 | 80 | 34.20 | 80 | 16.20 | 74 | 08 | 23 | NS | 74 | 08 | 23 | 484 | 510 | X | | X | GLDL | | |
| 19740025 | GREELY FD | 1052 | 80 | 34.70 | 80 | 4.70 | 74 | 08 | 23 | NS | 74 | 08 | 23 | 150 | 250 | X | | X | GLDL | | |
| 19740025 | GREELY FD | 1053 | 80 | 36.00 | 79 | 36.70 | 74 | 08 | 23 | NS | 74 | 08 | 23 | 402 | 435 | X | | X | GLDL | | |
| 19740025 | GREELY FD | 1054 | 80 | 33.50 | 80 | 11.50 | 74 | 08 | 25 | NS | 74 | 08 | 25 | 405 | 405 | X | | X | GLDL | | |
| 19740025 | GREELY FD | 1055 | 80 | 33.20 | 80 | 5.50 | 74 | 08 | 25 | NS | 74 | 08 | 25 | 206 | 220 | X | | X | GLDL | | |
| 19740025 | GREELY FD | 1056 | 80 | 33.10 | 79 | 52.50 | 74 | 08 | 25 | NS | 74 | 08 | 25 | 202 | 222 | X | | X | GLDL | | |
| 19740025 | GREELY FD | 1057 | 80 | 35.90 | 79 | 31.00 | 74 | 08 | 25 | NS | 74 | 08 | 25 | 421 | 501 | X | | X | GLDL | | |

TABLE 2 - TEMPERATURE-SALINITY DATA

| DATASET | AREA | STN | LATITUDE | | LONGITUDE | | START | | | | STOP | | | DEPTHS(M) | | C | S | T | INSTR | REPEAT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | DEG | MIN | DEG | MIN | YR | MN | DY | HR | YR | MN | DY | CAST | WATER | | | | | HR | NO |
| 19740118 | DANISH ST | 1 | 78 | 4.70 | 100 | 49.20 | 74 | 08 | 14 | NS | 74 | 08 | 28 | 85 | 85 | X | | X | YSI | | |
| 19740118 | DANISH ST | 10 | 78 | 1.60 | 100 | 49.70 | 74 | 08 | 14 | NS | 74 | 08 | 28 | 9.5 | 9.5 | X | | X | YSI | | |
| 19740118 | DANISH ST | 2 | 78 | 4.10 | 100 | 46.90 | 74 | 08 | 14 | NS | 74 | 08 | 28 | 5.5 | 5.5 | X | | X | YSI | | |
| 19740118 | DANISH ST | 3 | 78 | 5.00 | 100 | 45.60 | 74 | 08 | 14 | NS | 74 | 08 | 28 | 01 | 2 | X | | X | YSI | | |
| 19740118 | DANISH ST | 4 | 78 | 5.30 | 100 | 49.20 | 74 | 08 | 14 | NS | 74 | 08 | 28 | 6.4 | 6.4 | X | | X | YSI | | |
| 19740118 | DANISH ST | 5 | 78 | 4.10 | 100 | 49.00 | 74 | 08 | 14 | NS | 74 | 08 | 28 | 16.8 | 16.8 | X | | X | YSI | | |
| 19740118 | DANISH ST | 6 | 78 | 3.90 | 101 | 2.30 | 74 | 08 | 14 | NS | 74 | 08 | 28 | 87 | 87 | X | | X | YSI | | |
| 19740118 | DANISH ST | 7 | 78 | 7.90 | 100 | 58.30 | 74 | 08 | 14 | NS | 74 | 08 | 28 | 26.5 | 26.5 | X | | X | YSI | | |
| 19740118 | DANISH ST | 8 | 78 | 10.20 | 101 | 2.80 | 74 | 08 | 14 | NS | 74 | 08 | 28 | 43 | 43 | X | | X | YSI | | |
| 19740118 | DANISH ST | 9 | 78 | 10.50 | 101 | 8.90 | 74 | 08 | 14 | NS | 74 | 08 | 28 | 27.5 | 27.5 | X | | X | YSI | | |
| | | | | | | | | | | | | | | | | | | | | | |
| 19740121 | CROZIER ST | | 75 | 22.90 | 96 | 54.00 | 74 | 08 | 17 | NS | 74 | 08 | 17 | 09 | 09 | | | | NS | | |
| 19740121 | CROZIER ST | DS5 | 75 | 23.20 | 96 | 53.20 | 74 | 08 | 17 | NS | 74 | 08 | 20 | 09 | 09 | | | | NS | | |
| 19740121 | CROZIER ST | | 75 | 22.90 | 96 | 55.80 | 74 | 08 | 18 | NS | 74 | 08 | 18 | 12 | 12 | | | | NS | | |
| 19740121 | CROZIER ST | CB1 | 75 | 23.10 | 96 | 53.80 | 74 | 08 | 19 | NS | 74 | 08 | 21 | 20 | NS | | | | NS | | |
| 19740121 | CROZIER ST | CB2 | 75 | 23.00 | 96 | 53.40 | 74 | 08 | 19 | NS | 74 | 08 | 21 | 27 | NS | | | | NS | | |
| 19740121 | CROZIER ST | DS7 | 75 | 23.20 | 96 | 53.20 | 74 | 08 | 21 | NS | 74 | 08 | 21 | 08 | 08 | | | | NS | | |
| 19740121 | CROZIER ST | DS8 | 75 | 23.30 | 96 | 56.80 | 74 | 08 | 22 | NS | 74 | 08 | 22 | NS | NS | | | | NS | | |
| | | | | | | | | | | | | | | | | | | | | | |
| 19740134 | BYAM CH | | 75 | 27.20 | 104 | 44.00 | 74 | 04 | 23 | NS | 74 | 04 | 23 | 165 | NS | | X | | BOTT | | |
| 19740134 | BYAM CH | | 75 | 30.50 | 105 | 10.00 | 74 | 04 | 23 | NS | 74 | 04 | 23 | 90 | NS | | X | | BOTT | | |
| 19740134 | BYAM CH | | 75 | 31.50 | 105 | 16.00 | 74 | 04 | 23 | NS | 74 | 04 | 23 | 90 | NS | | X | | BOTT | | |
| 19740134 | BYAM CH | | 75 | 28.40 | 104 | 52.00 | 74 | 04 | 23 | NS | 74 | 04 | 23 | 120 | NS | | X | | BOTT | | |
| 19740134 | BYAM CH | | 75 | 29.50 | 105 | 0.00 | 74 | 04 | 23 | NS | 74 | 04 | 23 | 75 | NS | | X | | BOTT | | |
| | | | | | | | | | | | | | | | | | | | | | |
| 19750016 | HAZEN ST | 1 | 76 | 34.00 | 113 | 28.00 | 75 | 06 | 01 | NS | 75 | 06 | 30 | NS | 355 | X | | X | RCM4/m | | |
| 19750016 | HAZEN ST | 2 | 76 | 47.00 | 112 | 27.00 | 75 | 06 | 03 | NS | 75 | 07 | 20 | 05 | 390 | X | | X | RCM4/m | | |
| 19750016 | FITZWILLIAM ST | 4 | 76 | 44.00 | 115 | 25.00 | 75 | 06 | 09 | NS | 75 | 07 | 19 | 05 | 305 | X | | X | RCM4/m | | |
| 19750016 | FITZWILLIAM ST | 5 | 76 | 33.00 | 115 | 47.00 | 75 | 06 | 10 | NS | 75 | 07 | 03 | 05 | 335 | X | | X | RCM4/m | | |
| 19750016 | FITZWILLIAM ST | 3 | 76 | 36.00 | 114 | 15.00 | 75 | 06 | 11 | NS | 75 | 07 | 03 | 05 | 320 | X | | X | RCM4/m | | |
| 19750016 | HAZEN ST | 1.1 | 76 | 34.00 | 113 | 28.00 | 75 | 06 | 19 | NS | 75 | 06 | 19 | 340 | 355 | X | | X | RCM4/p | | |
| 19750016 | HAZEN ST | 1.2 | 76 | 34.00 | 113 | 28.00 | 75 | 07 | 02 | NS | 75 | 07 | 02 | 340 | 355 | X | | X | RCM4/p | | |
| 19750016 | HAZEN ST | 1.3 | 76 | 34.00 | 113 | 28.00 | 75 | 07 | 19 | NS | 75 | 07 | 19 | 340 | 355 | X | | X | RCM4/p | | |
| 19750016 | HAZEN ST | 1.4 | 76 | 34.00 | 113 | 28.00 | 75 | NS | NS | NS | 75 | NS | NS | 09 | 355 | X | | X | INTO | | |
| 19750016 | HAZEN ST | 2 | 76 | 47.00 | 112 | 27.00 | 75 | NS | NS | NS | 75 | NS | NS | 08 | 390 | X | | X | INTO | | |
| 19750016 | FITZWILLIAM ST | 3 | 76 | 36.00 | 114 | 15.00 | 75 | NS | NS | NS | 75 | NS | NS | 08 | 320 | X | | X | INTO | | |
| 19750016 | FITZWILLIAM ST | 4 | 76 | 44.00 | 115 | 25.00 | 75 | NS | NS | NS | 75 | NS | NS | 08 | 305 | X | | X | INTO | | |
| 19750016 | FITZWILLIAM ST | 5 | 76 | 33.00 | 115 | 47.00 | 75 | NS | NS | NS | 75 | NS | NS | 08 | 335 | X | | X | INTO | | |
| | | | | | | | | | | | | | | | | | | | | | |
| 19750017 | E. SABINE PEN | 6.1 | 76 | 24.60 | 107 | 20.83 | 75 | 05 | 09 | NS | 75 | 05 | 09 | 350 | 355 | X | | X | NS | | |
| 19750017 | E. SABINE PEN | 6.2 | 76 | 24.60 | 107 | 20.83 | 75 | 05 | 09 | NS | 75 | 05 | 09 | 10 | 355 | X | | X | NS | | |
| 19750017 | E. SABINE PEN | 7 | 76 | 27.95 | 107 | 20.58 | 75 | 05 | 09 | NS | 75 | 05 | 09 | 350 | 357 | X | | X | NS | | |

TABLE 2 - TEMPERATURE-SALINITY DATA

| DATASET | AREA | STN | LATITUDE | | LONGITUDE | | START | | | | STOP | | | DEPTHS(M) | | C | S | T | INSTR | REPEAT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | DEG | MIN | DEG | MIN | YR | MN | DY | HR | YR | MN | DY | CAST | WATER | | | | | HR | NO |
| 19750018 | DESBARATS ST | 9 | 76 | 50.00 | 106 | 0.00 | 75 | 01 | 30 | NS | 75 | 06 | 23 | 05 | 155 | X | | X | RCM4/m | | |
| 19750018 | DESBARATS ST | 9 | 76 | 50.00 | 106 | 0.00 | 75 | 01 | 30 | NS | 75 | 01 | 30 | 10 | 155 | X | | X | INTO | | |
| 19750018 | MACLEAN ST | 10 | 77 | 20.00 | 102 | 30.00 | 75 | 02 | 06 | NS | 75 | 02 | 06 | 10 | 229 | X | | X | INTO | | |
| 19750018 | HAZEN ST | 8 | 77 | 0.00 | 110 | 30.00 | 75 | 02 | 23 | NS | 75 | 02 | 23 | 10 | 433 | X | | X | INTO | | |
| 19750019 | E. SABINE PEN | 11.1 | 76 | 24.67 | 107 | 48.78 | 75 | 03 | 04 | NS | 75 | 03 | 04 | 36 | NS | X | | X | BECK | | |
| 19750019 | E. SABINE PEN | 11.2 | 76 | 24.67 | 107 | 48.78 | 75 | 03 | 09 | NS | 75 | 03 | 09 | 132 | NS | X | | X | BECK | 2 | 12 |
| 19750020 | HECLA & GRIPER | 1 | 76 | 21.92 | 110 | 53.08 | 75 | 12 | 06 | NS | 76 | 02 | 27 | 10 | 138 | X | | X | RCM4/m | | |
| 19750020 | HECLA & GRIPER | 1.1 | 76 | 21.92 | 110 | 53.08 | 75 | 12 | 06 | NS | 75 | 12 | 06 | 150 | NS | X | | X | RCM4/p | | |
| 19750020 | HECLA & GRIPER | 1.2 | 76 | 21.92 | 110 | 53.08 | 76 | 02 | 11 | NS | 76 | 02 | 11 | 160 | NS | X | | X | RCM4/p | | |
| 19750021 | MACLEAN ST | 3.1 | 78 | 5.37 | 101 | 50.67 | 76 | 01 | 13 | NS | 76 | 04 | 21 | 05 | 60 | X | | X | RCM4/m | | |
| 19750021 | MACLEAN ST | 3.1 | 78 | 5.37 | 101 | 50.67 | 76 | 02 | 03 | NS | 76 | 02 | 03 | 50 | 60 | X | | X | RCM4/p | | |
| 19750021 | MACLEAN ST | 3.2 | 78 | 5.37 | 101 | 50.67 | 76 | 04 | 20 | NS | 76 | 04 | 20 | 50 | 60 | X | | X | RCM4/p | | |
| 19750022 | MACLEAN ST | 9 | 77 | 20.00 | 102 | 30.00 | 76 | 03 | 24 | NS | 76 | 03 | 24 | 220 | 226 | X | | X | RCM4/p | | |
| 19750022 | PR GUSTAF ADOLF | 7 | 78 | 30.00 | 107 | 0.00 | 76 | 03 | 28 | NS | 76 | 03 | 28 | 350 | 385 | X | | X | RCM4/p | | |
| 19750022 | HAZEN ST | 8 | 77 | 0.00 | 110 | 30.00 | 76 | 04 | 09 | NS | 76 | 04 | 09 | 257 | 325 | X | | X | RCM4/p | | |
| 19750023 | E. SABINE PEN | 14 | 78 | 4.32 | 101 | 6.37 | 75 | 07 | 10 | 18 | 75 | 07 | 10 | 70 | 75 | X | | X | BECK | | |
| 19750023 | E. SABINE PEN | 13 | 78 | 5.37 | 101 | 5.00 | 75 | 07 | 11 | 18 | 75 | 07 | 11 | 40 | 45 | X | | X | BECK | | |
| 19750023 | E. SABINE PEN | 15 | 78 | 5.37 | 101 | 8.66 | 75 | 07 | 16 | 13 | 75 | 07 | 16 | 60 | 65 | X | | X | BECK | | |
| 19750023 | E. SABINE PEN | 12 | 78 | 5.77 | 101 | 6.83 | 75 | 07 | 16 | 18 | 75 | 07 | 16 | 50 | 55 | X | | X | BECK | | |
| 19750039 | GREELY FD | 1060 | 80 | 34.80 | 79 | 28.00 | 75 | 03 | 28 | 17 | 75 | 03 | 28 | 420 | 534 | X | | X | GLDL | | |
| 19750039 | GREELY FD | 1 | 80 | 34.40 | 79 | 43.70 | 75 | 04 | 01 | NS | 75 | 06 | 15 | 213 | 214 | | | X | RCM4/m | | |
| 19750039 | GREELY FD | 1062 | 80 | 34.80 | 78 | 28.00 | 75 | 04 | 03 | 20 | 75 | 04 | 03 | 500 | 534 | X | | X | GLDL | | |
| 19750039 | GREELY FD | 1061 | 80 | 34.00 | 78 | 9.00 | 75 | 04 | 06 | 18 | 75 | 04 | 06 | 170 | 170 | X | | X | GLDL | | |
| 19750039 | GREELY FD | 1063 | 80 | 34.70 | 78 | 7.00 | 75 | 04 | 06 | 22 | 75 | 04 | 06 | 195 | 196 | X | | X | GLDL | | |
| 19750039 | GREELY FD | 1065 | 80 | 35.50 | 78 | 6.00 | 75 | 04 | 07 | 17 | 75 | 04 | 07 | 165 | 168 | X | | X | GLDL | | |
| 19750039 | GREELY FD | 1064 | 80 | 35.00 | 79 | 45.00 | 75 | 04 | 07 | 21 | 75 | 04 | 07 | 200 | 214 | X | | X | GLDL | | |
| 19750039 | GREELY FD | 1067 | 80 | 35.50 | 78 | 15.00 | 75 | 04 | 08 | 15 | 75 | 04 | 08 | 180 | 200 | X | | X | GLDL | | |
| 19750039 | GREELY FD | 1071 | 80 | 34.80 | 78 | 32.00 | 75 | 04 | 08 | 17 | 75 | 04 | 08 | 270 | 282 | X | | X | GLDL | | |
| 19750039 | GREELY FD | 1073 | 80 | 34.80 | 78 | 48.00 | 75 | 04 | 08 | 20 | 75 | 04 | 08 | 380 | 420 | X | | X | GLDL | | |
| 19750039 | GREELY FD | 1066 | 80 | 35.20 | 80 | 16.00 | 75 | 04 | 08 | 21 | 75 | 04 | 08 | 450 | 500 | X | | X | GLDL | | |
| 19750039 | GREELY FD | 1075 | 80 | 34.50 | 79 | 12.00 | 75 | 04 | 08 | 22 | 75 | 04 | 08 | 425 | 455 | X | | X | GLDL | | |
| 19750039 | GREELY FD | 1068 | 80 | 35.20 | 80 | 7.00 | 75 | 04 | 10 | 18 | 75 | 04 | 10 | 330 | 369 | X | | X | GLDL | | |
| 19750039 | GREELY FD | 1070 | 80 | 35.70 | 79 | 56.00 | 75 | 04 | 10 | 20 | 75 | 04 | 10 | 210 | 241 | X | | X | GLDL | | |
| 19750039 | GREELY FD | 1078 | 80 | 34.50 | 79 | 28.00 | 75 | 04 | 11 | NS | 75 | 04 | 11 | 400 | 534 | X | | X | GLDL | | |
| 19750039 | GREELY FD | 1074 | 80 | 35.70 | 79 | 28.00 | 75 | 04 | 12 | 16 | 75 | 04 | 12 | 415 | 534 | X | | X | GLDL | | |

TABLE 2 - TEMPERATURE-SALINITY DATA

| DATASET | AREA | STN | LATITUDE | | LONGITUDE | | START | | | | STOP | | | DEPTHS(M) | | | | | | REPEAT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | DEG | MIN | DEG | MIN | YR | MN | DY | HR | YR | MN | DY | CAST | WATER | C | S | T | INSTR | HR | NO |
| 19750039 | GREELY FD | 1076 | 80 | 35.70 | 79 | 28.00 | 75 | 04 | 12 | 17 | 75 | 04 | 12 | 500 | 534 | X | | X | GLDL | | |
| 19750039 | GREELY FD | 1 | 80 | 34.40 | 79 | 43.70 | 75 | 06 | 09 | NS | 75 | 06 | 21 | 220 | 221 | | | X | RCM4/m | | |
| 19750039 | GREELY FD | 2 | 80 | 33.60 | 79 | 44.50 | 75 | 06 | 09 | NS | 75 | 06 | 21 | 208 | 209 | | | X | RCM4/m | | |
| 19750039 | GREELY FD | 4 | 80 | 33.30 | 79 | 37.90 | 75 | 06 | 09 | NS | 75 | 06 | 21 | 353 | 354 | | | X | RCM4/m | | |
| 19750138 | GREELY FD | | 80 | 36.00 | 79 | 28.00 | 75 | 06 | 13 | NS | 75 | 06 | 13 | 400 | NS | | | | NS | | |
| 19760010 | WELLINGTON CH | | 74 | 44.00 | 91 | 54.00 | 76 | 06 | NS | NS | 76 | 06 | NS | NS | NS | X | | X | BOTT | | |
| 19760014 | HECLA & GRIPER | 2.1 | 76 | 24.90 | 111 | 11.22 | 76 | 01 | 15 | NS | 76 | 01 | 15 | 380 | NS | X | | X | RCM4/p | | |
| 19760014 | HECLA & GRIPER | 2.1 | 76 | 24.90 | 111 | 11.22 | 76 | 01 | 15 | NS | 76 | 04 | 17 | 10 | 286 | X | | X | RCM4/m | | |
| 19760014 | HECLA & GRIPER | 2.2 | 76 | 24.90 | 111 | 11.22 | 76 | 02 | 10 | NS | 76 | 02 | 10 | 280 | NS | X | | X | RCM4/p | | |
| 19760014 | HECLA & GRIPER | 2.3 | 76 | 24.90 | 111 | 11.22 | 76 | 04 | 04 | NS | 76 | 04 | 04 | 60 | NS | X | | X | RCM4/p | | |
| 19760015 | ARNOTT ST | 4 | 76 | 18.00 | 103 | 28.00 | 76 | 05 | 15 | NS | 76 | 06 | 16 | 40 | 40 | X | | X | RCM4/m | | |
| 19760015 | ERSKINE IN | 6 | 76 | 19.00 | 102 | 13.00 | 76 | 05 | 16 | NS | 76 | 06 | 16 | 105 | 150 | X | | X | RCM4/m | | |
| 19760015 | ERSKINE IN | 5 | 76 | 19.00 | 102 | 13.00 | 76 | 05 | 17 | NS | 76 | 06 | 16 | 105 | 150 | X | | X | RCM4/m | | |
| 19760016 | PENNY ST | 12.1 | 76 | 41.50 | 97 | 7.00 | 76 | 04 | 13 | 17 | 76 | 04 | 13 | 155 | 187 | X | | X | RCM4/p | 1 | 14 |
| 19760016 | PENNY ST | 14.1 | 76 | 38.50 | 97 | 23.80 | 76 | 04 | 16 | 16 | 76 | 04 | 16 | 210 | 260 | X | | X | RCM4/p | 1 | 14 |
| 19760016 | PENNY ST | 11.1 | 76 | 42.80 | 96 | 58.70 | 76 | 04 | 18 | 15 | 76 | 04 | 18 | 192 | 192 | X | | X | RCM4/p | | |
| 19760016 | PENNY ST | 12.3 | 76 | 41.50 | 97 | 7.00 | 76 | 04 | 18 | 16 | 76 | 04 | 18 | 187 | 187 | X | | X | RCM4/p | | |
| 19760016 | PENNY ST | 15.1 | 76 | 36.30 | 97 | 28.50 | 76 | 04 | 20 | 15 | 76 | 04 | 20 | 155 | 157 | X | | X | RCM4/p | | |
| 19760016 | PENNY ST | 16.1 | 76 | 31.40 | 97 | 42.80 | 76 | 04 | 20 | 15 | 76 | 04 | 20 | 210 | 225 | X | | X | RCM4/p | | |
| 19760016 | PENNY ST | 15.2 | 76 | 36.30 | 97 | 28.50 | 76 | 04 | 20 | 16 | 76 | 04 | 20 | 100 | 108 | X | | X | RCM4/p | | |
| 19760016 | PENNY ST | 13 | 76 | 39.80 | 97 | 16.60 | 76 | 04 | 20 | 18 | 76 | 04 | 20 | 210 | 220 | X | | X | RCM4/p | | |
| 19760016 | PENNY ST | 14.2 | 76 | 38.50 | 97 | 23.80 | 76 | 04 | 20 | 18 | 76 | 04 | 20 | 210 | 260 | X | | X | RCM4/p | | |
| 19760016 | PENNY ST | 12.2 | 76 | 41.50 | 97 | 7.00 | 76 | 04 | 20 | 19 | 76 | 04 | 20 | 183 | 187 | X | | X | RCM4/p | | |
| 19760016 | PENNY ST | 11.2 | 76 | 42.80 | 96 | 58.70 | 76 | 04 | 20 | 20 | 76 | 04 | 20 | 183 | 192 | X | | X | RCM4/p | | |
| 19760016 | PENNY ST | 13 | 76 | 39.80 | 97 | 16.60 | 76 | 04 | 20 | 23 | 76 | 04 | 20 | 210 | 220 | X | | X | RCM4/p | | |
| 19760016 | PENNY ST | 16.2 | 76 | 31.40 | 97 | 42.80 | 76 | 04 | 21 | 20 | 76 | 04 | 21 | 210 | 225 | X | | X | RCM4/p | | |
| 19760016 | BELCHER CH | 21 | 77 | 26.00 | 95 | 53.10 | 76 | 04 | 24 | 19 | 76 | 04 | 24 | 56 | 59 | X | | X | RCM4/p | | |
| 19760016 | BELCHER CH | 22 | 77 | 24.00 | 95 | 57.00 | 76 | 04 | 24 | 20 | 76 | 04 | 24 | 68 | 68 | X | | X | RCM4/p | | |
| 19760016 | BELCHER CH | 23 | 77 | 18.30 | 96 | 1.80 | 76 | 04 | 24 | 21 | 76 | 04 | 24 | 125 | 127 | X | | X | RCM4/p | | |
| 19760016 | BELCHER CH | 24 | 77 | 14.50 | 96 | 5.90 | 76 | 04 | 24 | 22 | 76 | 04 | 24 | 200 | 220 | X | | X | RCM4/p | | |
| 19760016 | BELCHER CH | 25 | 77 | 7.90 | 96 | 13.00 | 76 | 04 | 24 | 23 | 76 | 04 | 24 | 175 | 180 | X | | X | RCM4/p | | |
| 19760016 | BELCHER CH | 26 | 77 | 3.60 | 96 | 17.70 | 76 | 04 | 25 | 00 | 76 | 04 | 25 | 200 | 200 | X | | X | RCM4/p | | |
| 19760017 | BYAM CH | 4 | 75 | 26.75 | 104 | 46.53 | 76 | 04 | 29 | 21 | 76 | 04 | 29 | 140 | 150 | X | | X | GLDL | 1 | 2 |
| 19760017 | BYAM CH | B2.2 | 75 | 30.20 | 105 | 8.70 | 76 | 05 | 01 | NS | 76 | 06 | 28 | 85 | 87 | X | | X | RCM4/m | | |
| 19760017 | AUSTIN CH | 5 | 75 | 30.27 | 103 | 1.43 | 76 | 05 | 03 | 22 | 76 | 05 | 03 | 220 | 240 | X | | X | GLDL | 1 | 21 |
| 19760017 | AUSTIN CH | 6 | 75 | 31.37 | 102 | 50.35 | 76 | 05 | 04 | 22 | 76 | 05 | 04 | 50 | 54 | X | | X | GLDL | | |

TABLE 2 - TEMPERATURE-SALINITY DATA

| DATASET | AREA | STN | LATITUDE | | LONGITUDE | | START | | | | STOP | | | DEPTHS(M) | | | | | | REPEAT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | DEG | MIN | DEG | MIN | YR | MN | DY | HR | YR | MN | DY | CAST | WATER | C | S | T | INSTR | HR | NO |
| 19760017 | AUSTIN CH | A2.2 | 75 | 26.40 | 103 | 38.70 | 76 | 05 | 08 | NS | 77 | 03 | 14 | 142 | 144 | X | | X | RCM4/m | | |
| 19760017 | AUSTIN CH | A1.2 | 75 | 25.20 | 103 | 50.10 | 76 | 05 | 10 | NS | 76 | 07 | 21 | 108 | 110 | X | | X | RCM4/m | | |
| 19760017 | AUSTIN CH | A3.2 | 75 | 28.20 | 103 | 21.60 | 76 | 05 | 10 | NS | 76 | 06 | 22 | 168 | 170 | X | | X | RCM4/m | | |
| 19760017 | AUSTIN CH | A4.2 | 75 | 30.20 | 103 | 1.00 | 76 | 05 | 10 | NS | 76 | 06 | 23 | 240 | 242 | X | | X | RCM4/m | | |
| 19760017 | AUSTIN CH | A5.2 | 75 | 31.50 | 102 | 49.20 | 76 | 05 | 10 | NS | 76 | 05 | 17 | 54 | 56 | X | | X | RCM4/m | | |
| 19760017 | BYAM CH | B3.1 | 75 | 26.90 | 104 | 57.40 | 76 | 05 | 10 | NS | 76 | 06 | 10 | 62 | 64 | X | | X | RCM4/m | | |
| 19760017 | BYAM CH | B5.2 | 75 | 25.50 | 104 | 37.80 | 76 | 05 | 12 | NS | 76 | 06 | 29 | 44 | 46 | | | X | RCM4/m | | |
| 19760018 | GREELY FD | 2010 | 80 | 34.70 | 79 | 29.00 | 76 | 03 | 08 | 20 | 76 | 03 | 08 | 474 | 495 | X | | X | GLDL | | |
| 19760018 | GREELY FD | 2015 | 80 | 35.50 | 78 | 44.00 | 76 | 03 | 14 | 20 | 76 | 03 | 14 | 350 | 375 | X | | X | GLDL | | |
| 19760018 | GREELY FD | 2017 | 80 | 34.00 | 78 | 5.00 | 76 | 03 | 15 | 14 | 76 | 03 | 15 | 100 | 113 | X | | X | GLDL | | |
| 19760018 | GREELY FD | 2019 | 80 | 35.00 | 78 | 19.00 | 76 | 03 | 15 | 21 | 76 | 03 | 15 | 190 | 210 | X | | X | GLDL | | |
| 19760018 | GREELY FD | 2021 | 80 | 34.00 | 80 | 20.00 | 76 | 03 | 22 | 14 | 76 | 03 | 22 | 525 | 562 | X | | X | GLDL | | |
| 19760018 | GREELY FD | 2023 | 80 | 30.00 | 81 | 45.00 | 76 | 03 | 23 | 14 | 76 | 03 | 23 | 470 | 492 | X | | X | GLDL | | |
| 19760018 | GREELY FD | 2024 | 80 | 26.00 | 82 | 46.00 | 76 | 03 | 24 | 14 | 76 | 03 | 24 | 580 | 620 | X | | X | GLDL | | |
| 19760018 | GREELY FD | 2025 | 80 | 29.00 | 84 | 24.00 | 76 | 03 | 25 | 01 | 76 | 03 | 25 | 650 | 696 | X | | X | GLDL | | |
| 19760018 | GREELY FD | 2026 | 80 | 28.00 | 86 | 0.00 | 76 | 03 | 26 | 17 | 76 | 03 | 26 | 650 | 680 | X | | X | GLDL | | |
| 19760018 | NANSEN SD | 2028 | 80 | 29.00 | 86 | 42.00 | 76 | 03 | 27 | 14 | 76 | 03 | 27 | 578 | 627 | X | | X | GLDL | | |
| 19760018 | NANSEN SD | 2029 | 80 | 22.00 | 86 | 47.00 | 76 | 03 | 29 | 14 | 76 | 03 | 29 | 329 | 366 | X | | X | GLDL | | |
| 19760018 | EUREKA SD | 2031 | 80 | 1.00 | 86 | 58.00 | 76 | 03 | 30 | 17 | 76 | 03 | 30 | 500 | 530 | X | | X | GLDL | | |
| 19760018 | EUREKA SD | 2032 | 80 | 0.30 | 86 | 49.00 | 76 | 03 | 30 | 19 | 76 | 03 | 30 | 500 | 534 | X | | X | GLDL | | |
| 19760018 | EUREKA SD | 2033 | 80 | 0.00 | 86 | 36.00 | 76 | 03 | 31 | 14 | 76 | 03 | 31 | 329 | 354 | X | | X | GLDL | | |
| 19770016 | AUSTIN CH | | 75 | 31.00 | 102 | 30.00 | 77 | 08 | NS | NS | 77 | 08 | NS | NS | NS | X | | X | BOTT | | |
| 19770016 | CROZIER ST | | 75 | 31.00 | 97 | 31.00 | 77 | 08 | NS | NS | 77 | 08 | NS | NS | NS | X | | X | BOTT | | |
| 19770016 | PULLEN ST | | 75 | 33.00 | 96 | 18.00 | 77 | 08 | NS | NS | 77 | 08 | NS | NS | NS | X | | X | BOTT | | |
| 19770016 | BYAM MARTIN IS | | 75 | 24.00 | 104 | 0.00 | 77 | 08 | NS | NS | 77 | 08 | NS | NS | NS | X | | X | BOTT | | |
| 19770019 | GREELY FD | 2301 | 80 | 36.20 | 79 | 31.20 | 77 | 03 | 04 | 21 | 77 | 03 | 04 | 231 | 231 | X | | X | GLDL | | |
| 19770019 | GREELY FD | 2302 | 80 | 34.80 | 78 | 12.50 | 77 | 03 | 16 | 22 | 77 | 03 | 16 | 110 | 118 | X | | X | GLDL | | |
| 19770019 | GREELY FD | 2303 | 80 | 35.70 | 78 | 23.80 | 77 | 03 | 17 | 05 | 77 | 03 | 17 | 182 | 186 | X | | X | GLDL | | |
| 19770019 | GREELY FD | 2304 | 80 | 36.00 | 78 | 30.00 | 77 | 03 | 17 | 20 | 77 | 03 | 17 | 159 | 165 | X | | X | GLDL | | |
| 19770019 | GREELY FD | 2305 | 80 | 35.00 | 78 | 38.00 | 77 | 03 | 17 | 23 | 77 | 03 | 17 | 242 | 247 | X | | X | GLDL | | |
| 19770019 | GREELY FD | 2306 | 80 | 33.50 | 80 | 30.00 | 77 | 03 | 21 | 21 | 77 | 03 | 21 | 237 | 241 | X | | X | GLDL | | |
| 19770019 | GREELY FD | 2307 | 80 | 33.70 | 79 | 51.80 | 77 | 03 | 22 | 01 | 77 | 03 | 22 | 180 | 190 | X | | X | GLDL | | |
| 19770019 | GREELY FD | 2308 | 80 | 35.30 | 78 | 53.80 | 77 | 03 | 24 | 19 | 77 | 03 | 24 | 365 | 369 | X | | X | GLDL | | |
| 19770019 | GREELY FD | 2309 | 80 | 34.80 | 79 | 9.50 | 77 | 03 | 24 | 23 | 77 | 03 | 24 | 479 | 480 | X | | X | GLDL | | |
| 19770019 | GREELY FD | 2310 | 80 | 34.20 | 79 | 35.30 | 77 | 03 | 26 | 01 | 77 | 03 | 26 | 513 | 513 | X | | X | GLDL | | |
| 19770019 | GREELY FD | 2311 | 80 | 34.70 | 79 | 22.50 | 77 | 03 | 27 | 19 | 77 | 03 | 27 | 450 | 464 | X | | X | GLDL | | |
| 19770022 | HECLA & GRIPER | 1.1 | 76 | 17.00 | 111 | 21.00 | 77 | 03 | 23 | 14 | 77 | 03 | 23 | NS | NS | X | | X | RCM4/p | | |
| 19770022 | HECLA & GRIPER | 1.1 | 76 | 17.00 | 111 | 21.00 | 77 | 03 | 24 | NS | 77 | 04 | 16 | 10 | 290 | X | | X | RCM4/m | | |
| 19770022 | HECLA & GRIPER | 1.2 | 76 | 17.00 | 111 | 21.00 | 77 | 04 | 16 | 10 | 77 | 04 | 16 | 280 | NS | X | | X | RCM4/p | | |
| 19770022 | HECLA & GRIPER | 1.2 | 76 | 17.00 | 111 | 21.00 | 77 | 04 | 17 | NS | 77 | 05 | 01 | 10 | 290 | X | | X | RCM4/m | | |

TABLE 2 - TEMPERATURE-SALINITY DATA

| DATASET | AREA | STN | LATITUDE | | LONGITUDE | | START | | | | STOP | | | DEPTHS(M) | | C | S | T | INSTR | REPEAT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | DEG | MIN | DEG | MIN | YR | MN | DY | HR | YR | MN | DY | CAST | WATER | | | | | HR | NO |
| 19770022 | HECLA & GRIPER | 1.3 | 76 | 17.00 | 111 | 21.00 | 77 | 05 | 01 | 14 | 77 | 05 | 01 | 290 | NS | X | | X | RCM4/p | | |
| 19770023 | EDINGBURGH SEA | 2.2 | 77 | 37.57 | 99 | 27.43 | 77 | 03 | 02 | NS | 77 | 06 | 29 | 02 | 396 | X | | X | RCM4/m | | |
| 19770023 | HAZEN ST | 3.2 | 76 | 58.05 | 110 | 40.43 | 77 | 03 | 14 | NS | 77 | 07 | 01 | 02 | 120 | X | | X | RCM4/m | | |
| 19770024 | HAZEN ST | 1.1 | 76 | 24.00 | 113 | 11.00 | 78 | 01 | 16 | 00 | 78 | 01 | 16 | 200 | 232 | X | | X | GLDL | | |
| 19770024 | HAZEN ST | 1 | 76 | 24.00 | 113 | 11.00 | 78 | 01 | 18 | NS | 78 | 04 | 17 | 10 | 232 | X | | X | RCM4/m | | |
| 19770024 | HAZEN ST | 1.2 | 76 | 24.00 | 113 | 11.00 | 78 | 04 | 22 | 20 | 78 | 04 | 22 | 200 | 232 | X | | X | GLDL | | |
| 19770025 | HAZEN ST | 2.1 | 76 | 43.00 | 109 | 46.00 | 78 | 01 | 11 | 03 | 78 | 01 | 11 | 150 | 165 | X | | X | GLDL | 4 | 13 |
| 19770025 | HAZEN ST | 2 | 76 | 43.00 | 109 | 46.00 | 78 | 01 | 11 | NS | 78 | 04 | 09 | 10 | 165 | X | | X | RCM4/m | | |
| 19770025 | HAZEN ST | 2.2 | 76 | 43.00 | 109 | 46.00 | 78 | 04 | 07 | 20 | 78 | 04 | 07 | 150 | 165 | X | | X | GLDL | 4 | 13 |
| 19770026 | CROZIER ST | C1 | 75 | 31.60 | 97 | 22.20 | 77 | 03 | 28 | 22 | 77 | 03 | 28 | 60 | 62 | X | | X | GLDL | | |
| 19770026 | CROZIER ST | C1.2 | 75 | 31.60 | 97 | 22.20 | 77 | 03 | 28 | NS | 77 | 06 | 11 | 25 | 64 | X | | X | RCM4/m | | |
| 19770026 | CROZIER ST | C2.3 | 75 | 31.50 | 97 | 19.80 | 77 | 03 | 29 | NS | 77 | 07 | 01 | 52 | 54 | X | | X | RCM4/m | | |
| 19770026 | CROZIER ST | C2 | 75 | 31.50 | 97 | 19.80 | 77 | 03 | 30 | 22 | 77 | 03 | 30 | 50 | 52 | X | | X | GLDL | | |
| 19770026 | CROZIER ST | C1.3 | 75 | 31.60 | 97 | 22.20 | 77 | 03 | 30 | NS | 77 | 04 | 14 | 62 | 64 | X | | X | RCM4/m | | |
| 19770026 | CROZIER ST | C2.2 | 75 | 31.50 | 97 | 19.80 | 77 | 03 | 30 | NS | 77 | 06 | 11 | 25 | 54 | X | | X | RCM4/m | | |
| 19770026 | CROZIER ST | C6 | 75 | 29.80 | 97 | 2.90 | 77 | 04 | 03 | 20 | 77 | 04 | 03 | 270 | 271 | X | | X | GLDL | 1 | 13 |
| 19770026 | CROZIER ST | C6.2 | 75 | 28.80 | 97 | 2.90 | 77 | 04 | 03 | NS | 77 | 08 | 07 | 271 | 273 | X | | X | RCM4/m | | |
| 19770026 | CROZIER ST | C5.4 | 75 | 30.00 | 97 | 5.10 | 77 | 04 | 05 | NS | 77 | 03 | 21 | 317 | 319 | X | | X | RCM4/m | | |
| 19770026 | CROZIER ST | C5 | 75 | 30.00 | 97 | 5.10 | 77 | 04 | 07 | 20 | 77 | 04 | 07 | 04 | 317 | X | | | GLDL | | |
| 19770026 | CROZIER ST | C5.2 | 75 | 30.00 | 97 | 5.10 | 77 | 04 | 07 | NS | 77 | 06 | 13 | 75 | 319 | X | | X | RCM4/m | | |
| 19770026 | CROZIER ST | C5.3 | 75 | 30.00 | 97 | 5.10 | 77 | 04 | 07 | NS | 77 | 06 | 14 | 200 | 319 | X | | X | RCM4/m | | |
| 19770026 | CROZIER ST | C4.3 | 75 | 30.30 | 97 | 8.00 | 77 | 04 | 09 | NS | 77 | 12 | 31 | 278 | 280 | X | | X | RCM4/m | | |
| 19770026 | CROZIER ST | C4 | 75 | 30.30 | 97 | 8.00 | 77 | 04 | 10 | 22 | 77 | 04 | 10 | 280 | 286 | X | | X | GLDL | | |
| 19770026 | CROZIER ST | C4.2 | 75 | 30.30 | 97 | 8.00 | 77 | 04 | 12 | NS | 77 | 06 | 14 | 200 | 280 | X | | X | RCM4/m | | |
| 19770026 | CROZIER ST | C3 | 75 | 30.50 | 97 | 10.40 | 77 | 04 | 13 | 03 | 77 | 04 | 13 | 89 | 92 | X | | X | GLDL | | |
| 19770026 | CROZIER ST | C3.2 | 75 | 30.50 | 97 | 10.40 | 77 | 04 | 13 | NS | 77 | 08 | 09 | 92 | 94 | | | X | RCM4/m | | |
| 19770026 | PULLEN ST | P3.3 | 75 | 26.50 | 96 | 5.90 | 77 | 04 | 20 | NS | 77 | 08 | 11 | 54 | 56 | X | | X | RCM4/m | | |
| 19770026 | PULLEN ST | P3 | 75 | 26.50 | 96 | 5.90 | 77 | 04 | 21 | 21 | 77 | 04 | 21 | 50 | 54 | X | | X | GLDL | | |
| 19770026 | PULLEN ST | P3.2 | 75 | 26.50 | 96 | 5.90 | 77 | 04 | 21 | NS | 77 | 06 | 15 | 25 | 56 | X | | X | RCM4/m | | |
| 19770026 | CROZIER ST | C4.3 | 75 | 30.30 | 97 | 8.00 | 78 | 01 | 01 | NS | 78 | 03 | 22 | 278 | 280 | X | | X | RCM4/m | | |
| 19770119 | MCDOUGALL SD | CB23 | 75 | 22.80 | 96 | 54.00 | 77 | 08 | 26 | NS | 77 | 08 | 26 | 02 | 02 | | | | NS | | |
| 19770119 | MCDOUGALL SD | CB24 | 75 | 22.80 | 96 | 54.00 | 77 | 08 | 27 | NS | 77 | 08 | 27 | 04 | 04 | | | | NS | | |
| 19770119 | MCDOUGALL SD | CB25 | 75 | 22.00 | 96 | 48.00 | 77 | 08 | 28 | NS | 77 | 08 | 28 | 02 | 02 | | | | NS | | |
| 19780007 | AUSTIN CH | 82.1 | 75 | 27.30 | 103 | 5.40 | 78 | 03 | 15 | NS | 78 | 04 | 26 | 05 | 180 | X | | X | RCM4/m | | |
| 19780007 | AUSTIN CH | 82.2 | 75 | 27.30 | 103 | 5.40 | 78 | 03 | 15 | NS | 78 | 03 | 26 | 50 | 180 | X | | X | RCM4/m | | |
| 19780007 | AUSTIN CH | 92 | 75 | 11.10 | 101 | 6.70 | 78 | 03 | 15 | NS | 78 | 04 | 26 | 04 | 155 | X | | X | RCM4/m | | |

# TABLE 2 - TEMPERATURE-SALINITY DATA

| DATASET | AREA | STN | LATITUDE | | LONGITUDE | | START | | | | STOP | | | DEPTHS(M) | | | | | | REPEAT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | DEG | MIN | DEG | MIN | YR | MN | DY | HR | YR | MN | DY | CAST | WATER | C | S | T | INSTR | HR | NO |
| 19780007 | AUSTIN CH | 95 | 75 | 7.40 | 102 | 59.60 | 78 | 03 | 15 | NS | 78 | 04 | 19 | 05 | 147 | X | | X | RCM4/m | | |
| 19780007 | MCDOUGALL SD | 33 | 75 | 6.80 | 97 | 32.70 | 78 | 04 | 06 | 18 | 78 | 04 | 06 | 58 | 61 | X | | X | GLDL | | |
| 19780007 | MCDOUGALL SD | 31 | 75 | 7.71 | 96 | 39.30 | 78 | 04 | 06 | 19 | 78 | 04 | 06 | 120 | 126 | X | | X | GLDL | | |
| 19780007 | MCDOUGALL SD | 32 | 75 | 7.65 | 97 | 6.57 | 78 | 04 | 06 | 20 | 78 | 04 | 06 | 170 | 175 | X | | X | GLDL | | |
| 19780007 | AUSTIN CH | 91 | 75 | 12.90 | 100 | 44.09 | 78 | 04 | 14 | 16 | 78 | 04 | 14 | 90 | 96 | X | | X | GLDL | | |
| 19780007 | AUSTIN CH | 92 | 75 | 11.65 | 101 | 5.50 | 78 | 04 | 14 | 16 | 78 | 04 | 14 | 150 | 155 | X | | X | GLDL | | |
| 19780007 | AUSTIN CH | 93 | 75 | 9.96 | 101 | 34.26 | 78 | 04 | 14 | 17 | 78 | 04 | 14 | 125 | 132 | X | | X | GLDL | | |
| 19780007 | AUSTIN CH | 94 | 75 | 8.11 | 102 | 40.90 | 78 | 04 | 14 | 17 | 78 | 04 | 14 | 98 | 107 | | | X | GLDL | | |
| 19780007 | AUSTIN CH | 95 | 75 | 7.48 | 102 | 59.55 | 78 | 04 | 14 | 18 | 78 | 04 | 14 | 135 | 147 | | | X | GLDL | | |
| 19780007 | AUSTIN CH | 96 | 75 | 6.80 | 103 | 25.80 | 78 | 04 | 14 | 18 | 78 | 04 | 14 | 93 | 97 | | | X | GLDL | | |
| 19780007 | BYAM CH | 86 | 75 | 17.60 | 105 | 35.21 | 78 | 04 | 14 | 20 | 78 | 04 | 14 | 74 | 77 | | | X | GLDL | | |
| 19780007 | BYAM CH | 84 | 75 | 14.70 | 104 | 56.94 | 78 | 04 | 14 | 21 | 78 | 04 | 14 | 220 | 225 | | | X | GLDL | | |
| 19780007 | BYAM CH | 85 | 75 | 15.90 | 105 | 15.50 | 78 | 04 | 14 | 21 | 78 | 04 | 14 | 73 | 77 | | | X | GLDL | | |
| 19780010 | E. SABINE PEN | 3.2 | 76 | 25.40 | 108 | 28.72 | 78 | 01 | 22 | NS | 78 | 03 | 25 | 49 | 58 | X | | X | RCM4/m | | |
| 19780010 | E. SABINE PEN | 3.1 | 76 | 25.40 | 108 | 28.72 | 78 | 01 | 23 | NS | 78 | 04 | 25 | 49 | 58 | X | | X | RCM4/m | | |
| 19780010 | E. SABINE PEN | 3.3 | 76 | 25.40 | 108 | 28.72 | 78 | 03 | 27 | NS | 78 | 04 | 11 | 10 | 58 | X | | X | RCM4/m | | |
| 19780011 | EDINBURGH SEA | 5.2 | 77 | 19.01 | 99 | 55.35 | 78 | 01 | 23 | NS | 78 | 06 | 04 | 03 | 234 | X | | X | RCM4/m | | |
| 19780011 | NORWEGIAN BAY | 4.1 | 78 | 3.20 | 92 | 6.77 | 78 | 01 | 25 | NS | 78 | 06 | 04 | 02 | 490 | X | | X | RCM4/m | | |
| 19780012 | CROZIER ST | C5 | 75 | 29.97 | 97 | 5.08 | 78 | 03 | 19 | 17 | 78 | 03 | 19 | 307 | 310 | X | | X | GLDL | | |
| 19780012 | CROZIER ST | C5 | 75 | 29.97 | 97 | 5.08 | 78 | 03 | 19 | 20 | 78 | 03 | 19 | 300 | 310 | X | | X | GLDL | | |
| 19780012 | CROZIER ST | C5 | 75 | 29.97 | 97 | 5.08 | 78 | 03 | 19 | NS | 78 | 03 | 19 | 300 | 310 | X | | X | GLDL | | |
| 19780012 | CROZIER ST | C6 | 75 | 24.00 | 97 | 6.00 | 78 | 03 | 23 | 04 | 78 | 03 | 23 | 360 | 369 | X | | X | GLDL | | |
| 19780012 | PULLEN ST | P1 | 75 | 24.62 | 96 | 21.35 | 78 | 03 | 24 | 04 | 78 | 03 | 24 | 35 | 54 | X | | X | GLDL | | |
| 19780012 | PULLEN ST | P2 | 75 | 26.83 | 96 | 6.17 | 78 | 03 | 25 | 03 | 78 | 03 | 25 | 47 | 48 | X | | X | GLDL | | |
| 19780012 | WELLINGTON CH | 3.2 | 75 | 14.92 | 92 | 52.00 | 78 | 04 | 03 | NS | 78 | 07 | 08 | 100 | 160 | X | | X | RCM4/m | | |
| 19780012 | WELLINGTON CH | 3 | 75 | 14.92 | 92 | 52.00 | 78 | 04 | 04 | 17 | 78 | 04 | 04 | 155 | 160 | X | | X | GLDL | | |
| 19780012 | WELLINGTON CH | 3.1 | 75 | 14.92 | 92 | 52.00 | 78 | 04 | 04 | NS | 78 | 07 | 08 | 20 | 160 | X | | X | RCM4/m | | |
| 19780012 | WELLINGTON CH | 4 | 75 | 14.33 | 92 | 37.50 | 78 | 04 | 05 | 15 | 78 | 04 | 05 | 180 | 188 | X | | X | GLDL | 1 | 25 |
| 19780012 | WELLINGTON CH | 4 | 75 | 14.33 | 92 | 37.50 | 78 | 04 | 06 | 21 | 78 | 04 | 06 | 180 | 188 | X | | X | GLDL | | |
| 19780012 | WELLINGTON CH | 4 | 75 | 14.33 | 92 | 37.50 | 78 | 04 | 06 | NS | 78 | 07 | 08 | 12 | 188 | X | | X | RCM4/m | | |
| 19780012 | WELLINGTON CH | 4 | 75 | 14.33 | 92 | 37.50 | 78 | 04 | 17 | 21 | 78 | 04 | 17 | 180 | 188 | X | | X | GLDL | | |
| 19780012 | WELLINGTON CH | 3 | 75 | 14.92 | 92 | 52.00 | 78 | 04 | 18 | 21 | 78 | 04 | 18 | 155 | 160 | X | | X | GLDL | | |
| 19780012 | WELLINGTON CH | 2.1 | 75 | 14.83 | 93 | 0.50 | 78 | 04 | 19 | NS | 78 | 07 | 09 | 12 | 146 | X | | X | RCM4/m | | |
| 19780012 | WELLINGTON CH | 2.2 | 75 | 14.83 | 93 | 0.50 | 78 | 04 | 19 | NS | 78 | 07 | 06 | 100 | 146 | | | X | RCM4/m | | |
| 19780012 | WELLINGTON CH | 2 | 75 | 14.83 | 93 | 0.50 | 78 | 04 | 21 | 21 | 78 | 04 | 21 | 140 | 146 | X | | X | GLDL | | |
| 19780012 | WELLINGTON CH | 1 | 75 | 15.25 | 93 | 17.00 | 78 | 04 | 25 | 15 | 78 | 04 | 25 | 225 | 232 | X | | X | GLDL | 1 | 31 |
| 19780012 | WELLINGTON CH | 1 | 75 | 15.25 | 93 | 17.00 | 78 | 04 | 25 | NS | 78 | 07 | 09 | 12 | 232 | X | | X | RCM4/m | | |
| 19780013 | HAZEN ST | 1.1 | 77 | 3.26 | 110 | 21.16 | 79 | 01 | 03 | 20 | 79 | 01 | 03 | 200 | 225 | X | | X | GLDL | 4 | 13 |
| 19780013 | HAZEN ST | 1 | 77 | 3.26 | 110 | 21.16 | 79 | 01 | 06 | NS | 79 | 04 | 29 | 10 | 225 | X | | X | RCM4/m | | |
| 19780013 | HAZEN ST | 1.2 | 77 | 3.26 | 110 | 21.16 | 79 | 05 | 02 | 04 | 79 | 05 | 02 | 200 | 225 | X | | X | GLDL | 4 | 11 |

## TABLE 2 - TEMPERATURE-SALINITY DATA

| DATASET | AREA | STN | LATITUDE DEG | LATITUDE MIN | LONGITUDE DEG | LONGITUDE MIN | START YR | START MN | START DY | START HR | STOP YR | STOP MN | STOP DY | DEPTHS(M) CAST | DEPTHS(M) WATER | C | S | T | INSTR | REPEAT HR | REPEAT NO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19780014 | DESBARATS ST | 2.1 | 76 | 42.21 | 105 | 57.25 | 78 | 12 | 30 | 03 | 78 | 12 | 30 | 150 | 150 | X | | X | GLDL | 4 | 18 |
| 19780014 | DESBARATS ST | 2 | 76 | 42.21 | 105 | 57.25 | 79 | 01 | 01 | NS | 79 | 04 | 06 | 10 | 150 | X | | X | RCM4/m | | |
| 19780014 | DESBARATS ST | 2.2 | 76 | 42.21 | 105 | 57.25 | 79 | 04 | 03 | 22 | 79 | 04 | 03 | 150 | 150 | X | | X | GLDL | 4 | 13 |
| 19790018 | W. LOUGHEED IS | 3.1 | 77 | 12.30 | 106 | 52.88 | 79 | 01 | 09 | 11 | 79 | 01 | 09 | 240 | 240 | X | | X | GLDL | 4 | 17 |
| 19790018 | W. LOUGHEED IS | 3 | 77 | 12.30 | 106 | 52.88 | 79 | 01 | 13 | NS | 79 | 05 | 05 | 10 | 240 | X | | X | RCM4/m | | |
| 19790018 | W. LOUGHEED IS | 3.2 | 77 | 12.30 | 106 | 52.88 | 79 | 04 | 29 | 12 | 79 | 04 | 29 | 240 | 240 | X | | X | GLDL | 4 | 13 |
| 19790019 | DESBARATS ST | 12.1 | 76 | 55.00 | 103 | 49.00 | 79 | 04 | 03 | NS | 79 | 05 | 07 | 05 | 195 | X | | X | RCM4/m | | |
| 19790019 | DESBARATS ST | 12.2 | 76 | 55.00 | 103 | 49.00 | 79 | 04 | 03 | NS | 79 | 05 | 01 | 50 | 195 | X | | X | RCM4/m | | |
| 19790019 | DESBARATS ST | 14.1 | 76 | 47.00 | 103 | 52.00 | 79 | 04 | 03 | NS | 79 | 04 | 27 | 05 | 325 | X | | X | RCM4/m | | |
| 19790019 | DESBARATS ST | 22.1 | 77 | 5.00 | 106 | 10.00 | 79 | 04 | 03 | NS | 79 | 04 | 03 | 0 6 | 199 | X | | X | RCM4/m | | |
| 19790019 | DESBARATS ST | 22.2 | 77 | 5.00 | 106 | 10.00 | 79 | 04 | 03 | NS | 79 | 04 | 08 | 50 | 199 | X | | X | RCM4/m | | |
| 19790019 | DESBARATS ST | 24.1 | 76 | 52.00 | 107 | 52.00 | 79 | 04 | 03 | NS | 79 | 05 | 02 | 0 | | | | | | | |
| 19790019 | DESBARATS ST | 14.2 | 76 | 47.00 | 103 | 52.00 | 79 | 04 | 04 | NS | 79 | 05 | 03 | 50 | 325 | X | | X | RCM4/m | | |
| 19790019 | DESBARATS ST | 24.2 | 76 | 52.00 | 107 | 52.00 | 79 | 04 | 04 | NS | 79 | 04 | 12 | 50 | 439 | X | | X | RCM4/m | | |
| 19790019 | DESBARATS ST | 1 | 77 | 12.00 | 106 | 46.00 | 79 | 04 | 06 | 23 | 79 | 04 | 06 | 347 | 353 | X | | X | GLDL | | |
| 19790019 | DESBARATS ST | 21 | 77 | 7.20 | 105 | 52.00 | 79 | 04 | 08 | 18 | 79 | 04 | 08 | 180 | 192 | X | | X | GLDL | | |
| 19790019 | DESBARATS ST | 22 | 77 | 5.00 | 106 | 10.00 | 79 | 04 | 08 | 19 | 79 | 04 | 08 | 195 | 199 | X | | X | GLDL | | |
| 19790019 | DESBARATS ST | 23.1 | 76 | 57.00 | 107 | 1.00 | 79 | 04 | 08 | 21 | 79 | 04 | 08 | 170 | 185 | X | | X | GLDL | | |
| 19790019 | DESBARATS ST | 24.1 | 76 | 51.80 | 107 | 52.00 | 79 | 04 | 08 | 23 | 79 | 04 | 08 | 430 | 439 | X | | X | GLDL | | |
| 19790019 | MACLEAN ST | 32.1 | 77 | 50.00 | 100 | 46.00 | 79 | 04 | 08 | NS | 79 | 04 | 30 | 05 | 210 | X | | X | RCM4/m | | |
| 19790019 | MACLEAN ST | 32.2 | 77 | 50.00 | 100 | 46.00 | 79 | 04 | 08 | NS | 79 | 05 | 08 | 50 | 210 | X | | X | RCM4/m | | |
| 19790019 | MACLEAN ST | 35.1 | 77 | 37.00 | 102 | 55.00 | 79 | 04 | 08 | NS | 79 | 04 | 25 | 05 | 350 | X | | X | RCM4/m | | |
| 19790019 | MACLEAN ST | 35.2 | 77 | 37.00 | 102 | 55.00 | 79 | 04 | 08 | NS | 79 | 04 | 25 | 50 | 350 | X | | X | RCM4/m | | |
| 19790019 | MACLEAN ST | 37.1 | 77 | 30.00 | 103 | 58.00 | 79 | 04 | 08 | NS | 79 | 05 | 07 | 06 | 290 | X | | X | RCM4/m | | |
| 19790019 | MACLEAN ST | 37.2 | 77 | 30.00 | 103 | 58.00 | 79 | 04 | 08 | NS | 79 | 05 | 07 | 50 | 290 | X | | X | RCM4/m | | |
| 19790019 | DESBARATS ST | 25 | 76 | 48.50 | 108 | 18.00 | 79 | 04 | 10 | 22 | 79 | 04 | 10 | 395 | 450 | X | | X | GLDL | | |
| 19790019 | DESBARATS ST | 24.2 | 76 | 51.80 | 107 | 52.00 | 79 | 04 | 10 | 23 | 79 | 04 | 10 | 400 | 439 | X | | X | GLDL | | |
| 19790019 | DESBARATS ST | 23.2 | 76 | 56.50 | 107 | 12.50 | 79 | 04 | 11 | 00 | 79 | 04 | 11 | 385 | 388 | X | | X | GLDL | | |
| 19790019 | DESBARATS ST | 11.1 | 77 | 0.00 | 103 | 45.00 | 79 | 04 | 13 | 18 | 79 | 04 | 13 | 165 | 175 | X | | X | GLDL | | |
| 19790019 | ARNOTT ST | 16 | 76 | 17.00 | 103 | 48.00 | 79 | 04 | 13 | 22 | 79 | 04 | 13 | 64 | 68 | X | | X | GLDL | | |
| 19790019 | ARNOTT ST | 17 | 76 | 16.40 | 103 | 49.00 | 79 | 04 | 13 | 22 | 79 | 04 | 13 | 90 | 95 | X | | X | GLDL | | |
| 19790019 | DESBARATS ST | 15.1 | 76 | 43.00 | 103 | 53.00 | 79 | 04 | 14 | 00 | 79 | 04 | 14 | 260 | 270 | X | | X | GLDL | | |
| 19790019 | DESBARATS ST | 14.1 | 76 | 47.00 | 103 | 52.00 | 79 | 04 | 14 | 01 | 79 | 04 | 14 | 315 | 325 | X | | X | GLDL | | |
| 19790019 | BYAM MARTIN CH | 41 | 76 | 4.00 | 104 | 29.00 | 79 | 04 | 14 | 17 | 79 | 04 | 14 | 160 | 175 | X | | X | GLDL | | |
| 19790019 | BYAM MARTIN CH | 42 | 76 | 2.00 | 104 | 47.00 | 79 | 04 | 14 | 18 | 79 | 04 | 14 | 180 | 190 | X | | X | GLDL | | |
| 19790019 | DESBARATS ST | 1 | 77 | 12.00 | 106 | 46.00 | 79 | 04 | 14 | 19 | 79 | 04 | 14 | 347 | 353 | X | | X | GLDL | 1 | 14 |
| 19790019 | BYAM MARTIN CH | 43 | 75 | 59.00 | 105 | 8.00 | 79 | 04 | 14 | 19 | 79 | 04 | 14 | 140 | 160 | X | | X | GLDL | | |
| 19790019 | BYAM MARTIN CH | 44 | 75 | 56.00 | 105 | 25.00 | 79 | 04 | 14 | 20 | 79 | 04 | 14 | 184 | 190 | X | | X | GLDL | | |
| 19790019 | DANISH ST | 33 | 77 | 48.00 | 100 | 53.00 | 79 | 04 | 14 | 23 | 79 | 04 | 14 | 200 | 220 | X | | X | GLDL | | |
| 19790019 | DANISH ST | 32 | 77 | 50.00 | 100 | 46.00 | 79 | 04 | 15 | 00 | 79 | 04 | 15 | 200 | 210 | X | | X | GLDL | | |
| 19790019 | DANISH ST | 31 | 77 | 51.50 | 100 | 39.00 | 79 | 04 | 15 | 01 | 79 | 04 | 15 | 100 | 110 | X | | X | GLDL | | |
| 19790019 | DESBARATS ST | 11.2 | 77 | 0.00 | 103 | 48.00 | 79 | 04 | 15 | 16 | 79 | 04 | 15 | 145 | 155 | X | | X | GLDL | | |

TABLE 2 - TEMPERATURE-SALINITY DATA

| DATASET | AREA | STN | LATITUDE | | LONGITUDE | | START | | | | STOP | | | DEPTHS(M) | | C | S | T | INSTR | REPEAT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | DEG | MIN | DEG | MIN | YR | MN | DY | HR | YR | MN | DY | CAST | WATER | | | | | HR | NO |
| 19790019 | DESBARATS ST | 14.2 | 76 | 47.00 | 103 | 52.00 | 79 | 04 | 15 | 20 | 79 | 04 | 15 | 300 | 320 | X | | X | GLDL | | |
| 19790019 | DESBARATS ST | 15.2 | 76 | 43.00 | 103 | 53.00 | 79 | 04 | 15 | 21 | 79 | 04 | 15 | 285 | 300 | X | | X | GLDL | | |
| 19790019 | W. LOUGHEED IS | 2 | 77 | 22.00 | 107 | 14.00 | 79 | 04 | 15 | 23 | 79 | 04 | 15 | 280 | 310 | X | | X | GLDL | | |
| 19790019 | DESBARATS ST | 11.3 | 77 | 0.00 | 103 | 48.00 | 79 | 04 | 16 | 18 | 79 | 04 | 16 | 145 | 160 | X | | X | GLDL | | |
| 19790019 | DESBARATS ST | 12.1 | 76 | 55.00 | 103 | 49.00 | 79 | 04 | 16 | 19 | 79 | 04 | 16 | 185 | 195 | X | | X | GLDL | | |
| 19790019 | DESBARATS ST | 12.2 | 76 | 55.00 | 103 | 49.00 | 79 | 04 | 16 | 22 | 79 | 04 | 16 | 185 | 195 | X | | X | GLDL | | |
| 19790019 | DESBARATS ST | 13 | 76 | 51.00 | 103 | 50.00 | 79 | 04 | 16 | 23 | 79 | 04 | 16 | 260 | 270 | X | | X | GLDL | | |
| 19790019 | DESBARATS ST | 14.3 | 76 | 47.00 | 103 | 52.00 | 79 | 04 | 17 | 00 | 79 | 04 | 17 | 300 | 320 | X | | X | GLDL | | |
| 19790019 | DESBARATS ST | 15.3 | 76 | 43.00 | 103 | 53.00 | 79 | 04 | 17 | 00 | 79 | 04 | 17 | 260 | 280 | X | | X | GLDL | | |
| 19790019 | MACLEAN ST | 38.1 | 77 | 27.00 | 104 | 30.00 | 79 | 04 | 19 | 17 | 79 | 04 | 19 | 290 | 295 | X | | X | GLDL | | |
| 19790019 | MACLEAN ST | 38.2 | 77 | 27.00 | 104 | 33.00 | 79 | 04 | 20 | 22 | 79 | 04 | 20 | 150 | 155 | X | | X | GLDL | | |
| 19790019 | MACLEAN ST | 37 | 77 | 30.00 | 103 | 58.00 | 79 | 04 | 20 | 23 | 79 | 04 | 20 | 285 | 290 | X | | X | GLDL | | |
| 19790019 | MACLEAN ST | 36 | 77 | 34.00 | 103 | 31.00 | 79 | 04 | 21 | 00 | 79 | 04 | 21 | 265 | 270 | X | | X | GLDL | | |
| 19790019 | MACLEAN ST | 35 | 77 | 37.00 | 102 | 55.00 | 79 | 04 | 21 | 03 | 79 | 04 | 21 | 345 | 350 | X | | X | GLDL | | |
| 19790019 | MACLEAN ST | 34 | 77 | 42.00 | 102 | 39.00 | 79 | 04 | 21 | 04 | 79 | 04 | 21 | 250 | 255 | X | | X | GLDL | | |
| 19790019 | PR GUSTAF ADOLF | 71.1 | 78 | 25.50 | 105 | 26.00 | 79 | 04 | 21 | 18 | 79 | 04 | 21 | 400 | 515 | X | | X | GLDL | | |
| 19790019 | HAZEN ST | 63 | 77 | 0.00 | 109 | 23.00 | 79 | 04 | 22 | 21 | 79 | 04 | 22 | 400 | 440 | X | | X | GLDL | | |
| 19790019 | HAZEN ST | 62 | 77 | 11.00 | 109 | 41.00 | 79 | 04 | 22 | 22 | 79 | 04 | 22 | 400 | 435 | X | | X | GLDL | | |
| 19790019 | HAZEN ST | 61 | 77 | 23.00 | 110 | 14.00 | 79 | 04 | 22 | 23 | 79 | 04 | 22 | 335 | 345 | X | | X | GLDL | | |
| 19790019 | PR GUSTAF ADOLF | 73 | 78 | 27.00 | 108 | 47.00 | 79 | 04 | 27 | 20 | 79 | 04 | 27 | 260 | 270 | X | | X | GLDL | | |
| 19790019 | PR GUSTAF ADOLF | 72 | 78 | 27.00 | 107 | 5.00 | 79 | 04 | 27 | 21 | 79 | 04 | 27 | 375 | 377 | X | | X | GLDL | | |
| 19790019 | PR GUSTAF ADOLF | 71.2 | 78 | 29.00 | 105 | 25.00 | 79 | 04 | 27 | 22 | 79 | 04 | 27 | 315 | 390 | X | | X | GLDL | | |
| 19790019 | EDINGBURGH SEA | 51 | 77 | 41.00 | 99 | 52.00 | 79 | 04 | 28 | 18 | 79 | 04 | 28 | 300 | 320 | X | | X | GLDL | | |
| 19790019 | EDINGBURGH SEA | 52 | 77 | 31.00 | 99 | 50.00 | 79 | 04 | 28 | 19 | 79 | 04 | 28 | 285 | 300 | X | | X | GLDL | | |
| 19790019 | EDINGBURGH SEA | 53 | 77 | 18.50 | 99 | 50.00 | 79 | 04 | 28 | 19 | 79 | 04 | 28 | 190 | 210 | X | | X | GLDL | | |
| 19790019 | EDINGBURGH SEA | 54 | 77 | 4.00 | 99 | 50.00 | 79 | 04 | 28 | 21 | 79 | 04 | 28 | 240 | 255 | X | | X | GLDL | | |
| 19790019 | EDINGBURGH SEA | 55 | 76 | 48.00 | 99 | 50.00 | 79 | 04 | 28 | 22 | 79 | 04 | 28 | 140 | 160 | X | | X | GLDL | | |
| 19790019 | WILKINS ST | 82 | 78 | 9.00 | 109 | 48.00 | 79 | 04 | 29 | 01 | 79 | 04 | 29 | 360 | 370 | X | | X | GLDL | | |
| 19790019 | WILKINS ST | 81 | 78 | 15.00 | 109 | 48.00 | 79 | 04 | 29 | 02 | 79 | 04 | 29 | 260 | 269 | X | | X | GLDL | | |
| 19790020 | W. LOUGHEED IS | 1.1 | 77 | 12.40 | 106 | 53.43 | 80 | 01 | 16 | 01 | 80 | 01 | 16 | 275 | 275 | X | | X | GLDL | 4 | 14 |
| 19790020 | W. LOUGHEED IS | 1.1 | 77 | 12.40 | 106 | 53.43 | 80 | 01 | 16 | NS | 80 | 05 | 11 | 10 | 275 | X | | X | RCM4/m | | |
| 19790020 | W. LOUGHEED IS | 1.2 | 77 | 12.40 | 106 | 53.43 | 80 | 02 | 28 | NS | 80 | 05 | 12 | 150 | 320 | X | | X | RCM4/m | | |
| 19790020 | W. LOUGHEED IS | 1.3 | 77 | 12.40 | 106 | 53.43 | 80 | 03 | 02 | NS | 80 | 05 | 13 | 275 | 320 | X | | X | RCM4/m | | |
| 19790020 | W. LOUGHEED IS | 1.2 | 77 | 12.40 | 106 | 53.43 | 80 | 04 | 16 | 21 | 80 | 04 | 16 | 275 | 275 | X | | X | GLDL | 4 | 16 |
| 19790022 | EDINGBURGH SEA | 2.1 | 77 | 37.18 | 100 | 22.40 | 80 | 01 | 18 | 14 | 80 | 01 | 18 | 236 | 236 | X | | X | GLDL | 4 | 12 |
| 19790022 | EDINGBURGH SEA | 3.1 | 77 | 36.50 | 99 | 31.13 | 80 | 01 | 20 | 22 | 80 | 01 | 20 | 262 | 262 | X | | X | GLDL | 4 | 12 |
| 19790022 | EDINGBURGH SEA | 2 | 77 | 37.18 | 100 | 22.40 | 80 | 01 | 21 | NS | 80 | 04 | 11 | 10 | 236 | X | | X | RCM4/m | | |
| 19790022 | EDINGBURGH SEA | 3.1 | 77 | 36.50 | 99 | 31.13 | 80 | 01 | 21 | NS | 80 | 02 | 23 | 10 | 262 | X | | X | RCM4/m | | |
| 19790022 | EDINGBURGH SEA | 3.2 | 77 | 36.50 | 99 | 31.13 | 80 | 02 | 23 | NS | 80 | 04 | 11 | 10 | 262 | X | | X | RCM4/m | | |
| 19790022 | EDINGBURGH SEA | 3.2 | 77 | 36.50 | 99 | 31.13 | 80 | 04 | 09 | 09 | 80 | 04 | 09 | 262 | 262 | X | | X | GLDL | 4 | 12 |
| 19790022 | EDINGBURGH SEA | 2.2 | 77 | 37.18 | 100 | 22.40 | 80 | 04 | 13 | 17 | 80 | 04 | 13 | 236 | 236 | X | | X | GLDL | 4 | 12 |
| 19800013 | DUNDAS IS | 1 | 76 | 10.00 | 94 | 55.00 | 80 | 03 | 08 | NS | 80 | 04 | 11 | 12 | 70 | X | | X | RCM4/m | | |

TABLE 2 - TEMPERATURE-SALINITY DATA

| DATASET | AREA | STN | LATITUDE | | LONGITUDE | | START | | | | STOP | | | DEPTHS(M) | | | | | | REPEAT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | DEG | MIN | DEG | MIN | YR | MN | DY | HR | YR | MN | DY | CAST | WATER | C | S | T | INSTR | HR | NO |
| 19800013 | DUNDAS IS | 2 | 76 | 11.00 | 94 | 57.60 | 80 | 03 | 08 | NS | 80 | 04 | 11 | 12 | 37 | X | | X | RCM4/m | | |
| 19800013 | DUNDAS IS | 3 | 76 | 11.90 | 94 | 59.60 | 80 | 03 | 08 | NS | 80 | 04 | 11 | 12 | 38 | X | | X | RCM4/m | | |
| 19800013 | DUNDAS IS | 4 | 76 | 10.80 | 95 | 33.40 | 80 | 03 | 08 | NS | 80 | 04 | 12 | 12 | 142 | X | | X | RCM4/m | | |
| 19800013 | DUNDAS IS | 5 | 76 | 9.40 | 94 | 53.60 | 80 | 03 | 21 | NS | 80 | 04 | 01 | 12 | 27 | X | | X | RCM4/m | | |
| 19800014 | W. LOUGHEED IS | 4.1 | 77 | 11.50 | 105 | 38.00 | 80 | 04 | 10 | NS | 80 | 05 | 01 | 10 | 63 | X | | X | RCM4/m | | |
| 19800014 | W. LOUGHEED IS | 4.2 | 77 | 11.50 | 105 | 38.00 | 80 | 04 | 10 | NS | 80 | 04 | 13 | 28 | 63 | X | | X | RCM4/m | | |
| 19800014 | W. LOUGHEED IS | 4.3 | 77 | 11.50 | 105 | 38.00 | 80 | 04 | 10 | NS | 80 | 05 | 01 | 50 | 63 | X | | X | RCM4/m | | |
| 19800014 | W. LOUGHEED IS | 5.1 | 76 | 56.90 | 107 | 41.00 | 80 | 04 | 10 | NS | 80 | 05 | 01 | 10 | 525 | X | | X | RCM4/m | | |
| 19800014 | W. LOUGHEED IS | 5.2 | 76 | 56.90 | 107 | 41.00 | 80 | 04 | 10 | NS | 80 | 04 | 14 | 268 | 525 | X | | X | RCM4/m | | |
| 19800014 | W. LOUGHEED IS | 6.1 | 76 | 50.50 | 108 | 34.00 | 80 | 04 | 11 | NS | 80 | 04 | 26 | 10 | 72 | X | | X | RCM4/m | | |
| 19800014 | W. LOUGHEED IS | 6.2 | 76 | 50.50 | 108 | 34.00 | 80 | 04 | 11 | NS | 80 | 05 | 01 | 36 | 72 | X | | X | RCM4/m | | |
| 19800014 | W. LOUGHEED IS | 6.3 | 76 | 50.50 | 108 | 34.00 | 80 | 04 | 11 | NS | 80 | 05 | 01 | 66 | 72 | X | | X | RCM4/m | | |
| 19810007 | MCDOUGALL SD | 71 | 75 | 8.50 | 97 | 27.30 | 81 | 04 | 19 | 22 | 81 | 04 | 19 | 83 | NS | X | | X | GLDL | | |
| 19810007 | MCDOUGALL SD | 72 | 75 | 7.20 | 97 | 12.00 | 81 | 04 | 19 | 22 | 81 | 04 | 19 | 174 | NS | X | | X | GLDL | | |
| 19810007 | MCDOUGALL SD | 73 | 75 | 6.50 | 96 | 57.40 | 81 | 04 | 19 | 23 | 81 | 04 | 19 | 200 | NS | X | | X | GLDL | | |
| 19810007 | MCDOUGALL SD | 74 | 75 | 5.50 | 96 | 42.20 | 81 | 04 | 20 | 00 | 81 | 04 | 20 | 200 | NS | X | | X | GLDL | | |
| 19810007 | WELLINGTON CH | 94 | 74 | 52.80 | 92 | 25.80 | 81 | 04 | 25 | 21 | 81 | 04 | 25 | 142 | NS | X | | X | GLDL | | |
| 19810007 | WELLINGTON CH | 95 | 74 | 52.80 | 92 | 11.00 | 81 | 04 | 25 | 21 | 81 | 04 | 25 | 86 | NS | X | | X | GLDL | | |
| 19810007 | WELLINGTON CH | 92 | 74 | 52.80 | 93 | 6.00 | 81 | 04 | 25 | 22 | 81 | 04 | 25 | 184 | NS | X | | X | GLDL | | |
| 19810007 | WELLINGTON CH | 93 | 74 | 52.80 | 92 | 43.00 | 81 | 04 | 25 | 22 | 81 | 04 | 25 | 131 | NS | X | | X | GLDL | | |
| 19810007 | WELLINGTON CH | 91 | 74 | 52.80 | 93 | 20.00 | 81 | 04 | 25 | 23 | 81 | 04 | 25 | 137 | NS | X | | X | GLDL | | |
| 19810108 | MCDOUGALL SD | 6 | 75 | 21.50 | 96 | 48.00 | 81 | 08 | 20 | NS | 81 | 08 | 20 | 12 | 12 | | | | NS | | |
| 19820003 | PENNY ST | A1 | 76 | 42.50 | 96 | 59.00 | 82 | 03 | 19 | 19 | 82 | 03 | 19 | 241 | 245 | X | | X | GLDL | | |
| 19820003 | PENNY ST | A1 | 76 | 42.30 | 97 | 1.00 | 82 | 03 | 22 | 16 | 82 | 03 | 22 | 233 | 240 | X | | X | GLDL | | |
| 19820003 | PENNY ST | A2 | 76 | 39.90 | 97 | 19.20 | 82 | 03 | 22 | 17 | 82 | 03 | 22 | 121 | 122 | X | | X | GLDL | | |
| 19820003 | PENNY ST | A3 | 76 | 34.10 | 97 | 31.40 | 82 | 03 | 22 | 19 | 82 | 03 | 22 | 143 | 152 | X | | X | GLDL | | |
| 19820003 | PENNY ST | A4 | 76 | 35.00 | 97 | 46.50 | 82 | 03 | 22 | 20 | 82 | 03 | 22 | 189 | 196 | X | | X | GLDL | | |
| 19820003 | MACLEAN ST | B1 | 78 | 0.50 | 102 | 55.90 | 82 | 03 | 23 | 19 | 82 | 03 | 23 | 427 | 521 | X | | X | GLDL | | |
| 19820003 | MACLEAN ST | B2 | 77 | 39.10 | 102 | 25.50 | 82 | 03 | 23 | 20 | 82 | 03 | 23 | 282 | 285 | X | | X | GLDL | | |
| 19820003 | MACLEAN ST | B3 | 77 | 33.90 | 103 | 27.30 | 82 | 03 | 23 | 21 | 82 | 03 | 23 | 244 | 247 | X | | X | GLDL | | |
| 19820003 | MACLEAN ST | B4 | 77 | 27.60 | 104 | 31.60 | 82 | 03 | 24 | 00 | 82 | 03 | 24 | 327 | 329 | X | | X | GLDL | | |
| 19820003 | HAZEN ST | D1 | 77 | 3.00 | 106 | 15.70 | 82 | 03 | 24 | 18 | 82 | 03 | 24 | 157 | 158 | X | | X | GLDL | | |
| 19820003 | HAZEN ST | D2 | 76 | 52.00 | 107 | 47.70 | 82 | 03 | 24 | 19 | 82 | 03 | 24 | 407 | 408 | X | | X | GLDL | | |
| 19820003 | BYAM MARTIN CH | C1 | 76 | 3.70 | 104 | 33.20 | 82 | 03 | 25 | 18 | 82 | 03 | 25 | 126 | 130 | X | | X | GLDL | | |
| 19820003 | BYAM MARTIN CH | C2 | 76 | 2.00 | 104 | 38.00 | 82 | 03 | 25 | 19 | 82 | 03 | 25 | 200 | 203 | X | | X | GLDL | | |
| 19820003 | BYAM MARTIN CH | C3 | 76 | 0.60 | 104 | 55.20 | 82 | 03 | 25 | 19 | 82 | 03 | 25 | 182 | 185 | X | | X | GLDL | | |
| 19820003 | BYAM MARTIN CH | C4 | 75 | 58.30 | 105 | 11.00 | 82 | 03 | 25 | 20 | 82 | 03 | 25 | 140 | 144 | X | | X | GLDL | | |
| 19820003 | BYAM MARTIN CH | C5 | 75 | 53.40 | 105 | 20.50 | 82 | 03 | 25 | 21 | 82 | 03 | 25 | 212 | 215 | X | | X | GLDL | | |

TABLE 2 - TEMPERATURE-SALINITY DATA

| DATASET | AREA | STN | LATITUDE | | LONGITUDE | | START | | | | STOP | | | DEPTHS(M) | | C | S | T | INSTR | REPEAT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | DEG | MIN | DEG | MIN | YR | MN | DY | HR | YR | MN | DY | CAST | WATER | | | | | HR | NO |
| 19820107 | WELLINGTON CH | 92 | 74 | 52.00 | 93 | 6.00 | 82 | 04 | 08 | NS | 82 | 04 | 08 | 150 | NS | X | | X | NS | | |
| 19820107 | MCDOUGALL SD | 73 | 75 | 7.20 | 97 | 12.00 | 82 | 04 | 10 | NS | 82 | 04 | 10 | 205 | NS | X | | X | NS | | |
| 19820130 | MACLEAN ST | K08 | 78 | 7.70 | 104 | 33.60 | 82 | 01 | 19 | NS | 82 | 01 | 19 | 470 | 554 | X | | X | GLDL | 3 | 8 |
| 19820130 | HAZEN ST | F24 | 77 | 33.30 | 109 | 9.90 | 82 | 01 | 22 | NS | 82 | 01 | 22 | 350 | NS | X | | X | GLDL | 3 | 8 |
| 19820130 | HAZEN ST | F24 | 77 | 33.30 | 109 | 9.90 | 82 | 05 | 05 | NS | 82 | 05 | 05 | 350 | NS | X | | X | GLDL | 3 | 8 |
| 19820130 | MACLEAN ST | K08 | 78 | 7.70 | 104 | 33.60 | 82 | 05 | 08 | NS | 82 | 05 | 08 | 470 | 554 | X | | X | GLDL | 3 | 8 |
| 19820131 | MOULD BAY | 6955 | 76 | 13.80 | 119 | 34.00 | 82 | 06 | 06 | NS | 83 | 06 | 01 | 14.2 | 14.2 | | | X | TG3A/m | | |
| 19820131 | ISACHSEN | 6910 | 78 | 47.00 | 103 | 32.00 | 83 | 06 | 06 | NS | 84 | 06 | 01 | 12.8 | 12.8 | | | X | TG3A/m | | |
| 19830004A | NANSEN SD | A5 | 80 | 50.00 | 89 | 48.00 | 83 | 04 | 25 | 19 | 83 | 04 | 25 | 496 | NS | X | | X | GLDL | | |
| 19830005 | WELLINGTON CH | S01 | 75 | 41.10 | 93 | 29.80 | 83 | 03 | 20 | 12 | 83 | 03 | 20 | 251 | 251 | X | | X | GLDL | | |
| 19830005 | MACLEAN ST | B02 | 77 | 37.00 | 102 | 18.30 | 83 | 03 | 24 | 17 | 83 | 03 | 24 | 299 | 299 | X | | X | GLDL | | |
| 19830005 | MACLEAN ST | B04 | 77 | 30.00 | 104 | 28.70 | 83 | 03 | 24 | 19 | 83 | 03 | 24 | 314 | 314 | X | | X | GLDL | | |
| 19830005 | HAZEN ST | D06 | 76 | 56.50 | 108 | 46.00 | 83 | 03 | 24 | 21 | 83 | 03 | 24 | 450 | 450 | X | | X | GLDL | | |
| 19830005 | HAZEN ST | 08 | 77 | 16.70 | 109 | 42.60 | 83 | 03 | 24 | 23 | 83 | 03 | 24 | 383 | 383 | X | | X | GLDL | | |
| 19830005 | PR GUSTAF ADOLF | P02 | 78 | 49.30 | 107 | 52.20 | 83 | 03 | 27 | 22 | 83 | 03 | 27 | 394 | 394 | X | | X | GLDL | | |
| 19830005 | PR GUSTAF ADOLF | P01 | 78 | 28.80 | 105 | 33.20 | 83 | 03 | 27 | 23 | 83 | 03 | 27 | 493 | 493 | X | | X | GLDL | | |
| 19830005 | PENNY ST | A08 | 76 | 51.00 | 99 | 14.70 | 83 | 03 | 29 | 17 | 83 | 03 | 29 | 540 | 540 | X | | X | GLDL | | |
| 19830005 | PENNY ST | A01 | 76 | 38.00 | 980 | 1.00 | 83 | 03 | 29 | 18 | 83 | 03 | 29 | 182 | 183 | X | | X | GLDL | | |
| 19830005 | PENNY ST | A04 | 76 | 35.50 | 97 | 43.10 | 83 | 03 | 29 | 19 | 83 | 03 | 29 | 166 | 166 | X | | X | GLDL | | |
| 19830005 | PENNY ST | A03 | 76 | 40.60 | 97 | 33.70 | 83 | 03 | 29 | 21 | 83 | 03 | 29 | 45 | 45 | X | | X | GLDL | | |
| 19830005 | PENNY ST | A05 | 76 | 40.70 | 97 | 21.80 | 83 | 03 | 29 | 21 | 83 | 03 | 29 | 220 | 221 | X | | X | GLDL | | |
| 19830005 | PENNY ST | A02 | 76 | 39.30 | 97 | 0.30 | 83 | 03 | 29 | 22 | 83 | 03 | 29 | 252 | 252 | X | | X | GLDL | | |
| 19830005 | PENNY ST | A01 | 76 | 42.30 | 97 | 0.10 | 83 | 03 | 29 | 23 | 83 | 03 | 29 | 305 | 305 | X | | X | GLDL | | |
| 19830005 | NORWEGIAN BAY | V01 | 77 | 23.20 | 92 | 9.20 | 83 | 04 | 01 | 17 | 83 | 04 | 01 | 445 | 445 | X | | X | GLDL | | |
| 19830005 | PENNY ST | A02 | 76 | 40.40 | 97 | 9.10 | 83 | 04 | 01 | 19 | 83 | 04 | 01 | 373 | 373 | X | | X | GLDL | | |
| 19830005 | PENNY ST | A03 | 76 | 35.60 | 97 | 30.40 | 83 | 04 | 01 | 19 | 83 | 04 | 01 | 76 | 78 | X | | X | GLDL | | |
| 19830005 | PENNY ST | A02 | 76 | 40.40 | 97 | 9.10 | 83 | 04 | 01 | 20 | 83 | 04 | 01 | 377 | 377 | X | | X | GLDL | | |
| 19830005 | PENNY ST | A02 | 76 | 40.40 | 97 | 9.10 | 83 | 04 | 01 | 21 | 83 | 04 | 01 | 375 | 375 | X | | X | GLDL | | |
| 19830005 | PENNY ST | A02 | 76 | 40.40 | 97 | 9.10 | 83 | 04 | 01 | 21 | 83 | 04 | 01 | 379 | 379 | X | | X | GLDL | | |
| 19830005 | PENNY ST | A02 | 76 | 40.40 | 97 | 9.10 | 83 | 04 | 01 | 22 | 83 | 04 | 01 | 375 | 375 | X | | X | GLDL | | |
| 19830005 | PENNY ST | A02 | 76 | 40.40 | 97 | 9.10 | 83 | 04 | 01 | 22 | 83 | 04 | 01 | 375 | 375 | X | | X | GLDL | | |
| 19830005 | PENNY ST | A02 | 76 | 40.40 | 97 | 9.10 | 83 | 04 | 01 | 23 | 83 | 04 | 01 | 375 | 375 | X | | X | GLDL | | |
| 19830005 | PENNY ST | A06 | 76 | 14.30 | 95 | 58.00 | 83 | 04 | 02 | 00 | 83 | 04 | 02 | 198 | 198 | X | | X | GLDL | | |
| 19830008 | BYAM MARTIN CH | 66 | 76 | 4.70 | 104 | 28.30 | 83 | 03 | 29 | 17 | 83 | 03 | 29 | 114 | 118 | X | | X | GLDL | | |
| 19830008 | BYAM MARTIN CH | 64 | 76 | 0.70 | 104 | 56.20 | 83 | 03 | 29 | 18 | 83 | 03 | 29 | 114 | 177 | X | | X | GLDL | | |
| 19830008 | BYAM MARTIN CH | 65 | 76 | 3.20 | 104 | 40.70 | 83 | 03 | 29 | 18 | 83 | 03 | 29 | 175 | 180 | X | | X | GLDL | | |
| 19830008 | BYAM MARTIN CH | 63 | 75 | 58.10 | 105 | 11.40 | 83 | 03 | 29 | 19 | 83 | 03 | 29 | 132 | 136 | X | | X | GLDL | | |

TABLE 2 - TEMPERATURE-SALINITY DATA

| DATASET | AREA | STN | LATITUDE |  | LONGITUDE |  | START |  |  |  | STOP |  |  | DEPTHS(M) |  |  |  |  |  | REPEAT |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  | DEG | MIN | DEG | MIN | YR | MN | DY | HR | YR | MN | DY | CAST | WATER | C | S | T | INSTR | HR | NO |
| 19830008 | BYAM MARTIN CH | 62 | 75 | 56.20 | 105 | 25.90 | 83 | 03 | 29 | NS | 83 | 03 | 29 | 173 | 178 | X |  | X | GLDL |  |  |
| 19830008 | AUSTIN CH | CM71 | 75 | 23.30 | 102 | 38.60 | 83 | 04 | 01 | NS | 83 | 05 | 23 | 18 | NS | X |  | X | RCM4/m |  |  |
| 19830008 | AUSTIN CH | CM71 | 75 | 23.30 | 102 | 38.60 | 83 | 04 | 01 | NS | 84 | 04 | 30 | 73 | NS | X |  | X | RCM4/m |  |  |
| 19830008 | AUSTIN CH | CM71 | 75 | 23.30 | 102 | 38.60 | 83 | 04 | 01 | NS | 84 | 04 | 30 | 123 | NS | X |  | X | RCM4/m |  |  |
| 19830008 | BYAM MARTIN CH | CM62 | 75 | 55.60 | 105 | 22.60 | 83 | 04 | 02 | NS | 83 | 05 | 23 | 18 | NS | X |  | X | RCM4/m |  |  |
| 19830008 | BYAM MARTIN CH | CM63 | 75 | 58.10 | 105 | 10.60 | 83 | 04 | 02 | NS | 83 | 05 | 18 | 18 | NS | X |  | X | RCM4/m |  |  |
| 19830008 | BYAM MARTIN CH | CM65 | 76 | 2.90 | 104 | 38.80 | 83 | 04 | 02 | NS | 83 | 04 | 19 | 18 | NS | X |  | X | RCM4/m |  |  |
| 19830008 | BYAM MARTIN CH | CM66 | 76 | 4.60 | 104 | 27.90 | 83 | 04 | 02 | NS | 83 | 05 | 23 | 18 | NS | X |  | X | RCM4/m |  |  |
| 19830076 | EDINGBURGH SEA |  | 77 | 44.60 | 99 | 6.00 | 83 | 01 | 24 | NS | 83 | 01 | 24 | 115 | 118 | X |  | X | GLDL | NS | 14 |
| 19830076 | EDINGBURGH SEA |  | 77 | 44.60 | 99 | 6.00 | 83 | 03 | 26 | NS | 83 | 03 | 26 | 115 | 118 | X |  | X | GLDL | NS | 18 |
| 19830077 | MOULD BAY | 6955 | 76 | 17.00 | 119 | 28.00 | 83 | 06 | 01 | NS | 84 | 05 | 29 | 14.2 | 14.2 |  |  | X | TG3A/m |  |  |
| 19830077 | AUDHILD BAY | 6702 | 81 | 32.00 | 91 | 10.00 | 83 | 06 | 05 | NS | 84 | 05 | 27 | 16.5 | 16.5 |  |  | X | TG3A/m |  |  |
| 19840039 | CROZIER ST | CS2 | 75 | 23.00 | 96 | 57.00 | 84 | 08 | 12 | NS | 84 | 08 | 12 | 16 | 16 |  |  |  | NS |  |  |
| 19840039 | GARROW BAY | B6 | 75 | 21.50 | 96 | 48.00 | 84 | 08 | 15 | NS | 84 | 08 | 15 | 08 | 08 |  |  |  | NS |  |  |
| 19840039 | GARROW BAY | GB7 | 75 | 22.10 | 96 | 48.00 | 84 | 08 | 15 | NS | 84 | 08 | 15 | 06 | 06 |  |  |  | NS |  |  |
| 19840039 | GARROW BAY | GB8 | 75 | 23.00 | 96 | 45.00 | 84 | 08 | 15 | NS | 84 | 08 | 15 | 09 | 09 |  |  |  | NS |  |  |
| 19840039 | COMINCO BAY | CB5 | 75 | 21.50 | 96 | 51.00 | 84 | 08 | 16 | NS | 84 | 08 | 16 | 12 | 12 |  |  |  | NS |  |  |
| 19840049A | WELLINGTON CH | 96 | 74 | 47.70 | 93 | 18.00 | 84 | 04 | 10 | 15 | 84 | 04 | 10 | NS | 122 | X |  | X | GLDL |  |  |
| 19840049A | WELLINGTON CH | 94 | 74 | 47.80 | 92 | 54.10 | 84 | 04 | 10 | 16 | 84 | 04 | 10 | NS | 146 | X |  | X | GLDL |  |  |
| 19840049A | WELLINGTON CH | 95 | 74 | 47.70 | 93 | 9.10 | 84 | 04 | 10 | 16 | 84 | 04 | 10 | NS | 155 | X |  | X | GLDL |  |  |
| 19840049A | WELLINGTON CH | 92 | 74 | 47.60 | 92 | 17.50 | 84 | 04 | 10 | 17 | 84 | 04 | 10 | NS | 75 | X |  | X | GLDL |  |  |
| 19840049A | WELLINGTON CH | 93 | 74 | 47.50 | 92 | 34.20 | 84 | 04 | 10 | 17 | 84 | 04 | 10 | NS | 122 | X |  | X | GLDL |  |  |
| 19840049A | WELLINGTON CH | 91 | 74 | 47.50 | 92 | 9.40 | 84 | 04 | 10 | 18 | 84 | 04 | 10 | NS | 77 | X |  | X | GLDL |  |  |
| 19840049A | WELLINGTON CH | 125 | 75 | 14.00 | 92 | 36.00 | 84 | 04 | 12 | 16 | 84 | 04 | 12 | NS | 193 | X |  | X | GLDL |  |  |
| 19840049A | WELLINGTON CH | 126 | 75 | 14.10 | 92 | 29.00 | 84 | 04 | 12 | 16 | 84 | 04 | 12 | NS | 50 | X |  | X | GLDL |  |  |
| 19840049A | WELLINGTON CH | 124 | 75 | 14.30 | 92 | 42.60 | 84 | 04 | 12 | 17 | 84 | 04 | 12 | NS | 170 | X |  | X | GLDL |  |  |
| 19840049A | WELLINGTON CH | 122 | 75 | 14.60 | 93 | 15.10 | 84 | 04 | 12 | 18 | 84 | 04 | 12 | NS | 231 | X |  | X | GLDL |  |  |
| 19840049A | WELLINGTON CH | 123 | 75 | 14.20 | 93 | 0.10 | 84 | 04 | 12 | 18 | 84 | 04 | 12 | NS | 150 | X |  | X | GLDL |  |  |
| 19840049A | WELLINGTON CH | 121 | 75 | 15.20 | 93 | 23.20 | 84 | 04 | 12 | 19 | 84 | 04 | 12 | NS | 138 | X |  | X | GLDL |  |  |
| 19840049A | WELLINGTON CH | 141 | 75 | 43.60 | 94 | 45.60 | 84 | 04 | 12 | 21 | 84 | 04 | 12 | NS | 80 | X |  | X | GLDL |  |  |
| 19840049A | WELLINGTON CH | 140 | 75 | 39.60 | 94 | 54.50 | 84 | 04 | 12 | 22 | 84 | 04 | 12 | NS | 59 | X |  | X | GLDL |  |  |
| 19840049A | CROZIER ST | 173 | 75 | 26.40 | 96 | 7.80 | 84 | 04 | 12 | 23 | 84 | 04 | 12 | NS | 49 | X |  | X | GLDL |  |  |
| 19840049A | MCDOUGALL SD | 74 | 75 | 6.90 | 96 | 37.50 | 84 | 04 | 14 | 15 | 84 | 04 | 14 | NS | 113 | X |  | X | GLDL |  |  |
| 19840049A | MCDOUGALL SD | 73 | 75 | 7.30 | 96 | 52.40 | 84 | 04 | 14 | 16 | 84 | 04 | 14 | NS | 230 | X |  | X | GLDL |  |  |
| 19840049A | MCDOUGALL SD | 71 | 75 | 8.40 | 97 | 25.00 | 84 | 04 | 14 | 17 | 84 | 04 | 14 | NS | 101 | X |  | X | GLDL |  |  |
| 19840049A | MCDOUGALL SD | 72 | 75 | 8.10 | 97 | 10.00 | 84 | 04 | 14 | 17 | 84 | 04 | 14 | NS | 230 | X |  | X | GLDL |  |  |
| 19840049A | MCDOUGALL SD | 70 | 75 | 8.60 | 97 | 30.40 | 84 | 04 | 14 | 18 | 84 | 04 | 14 | NS | 61 | X |  | X | GLDL |  |  |
| 19840049A | HAZEN ST | L01 | 76 | 57.60 | 108 | 58.00 | 84 | 04 | 14 | 18 | 84 | 04 | 14 | 60 | 66 | X |  | X | GLDL |  |  |
| 19840049A | HAZEN ST | L02 | 77 | 1.20 | 108 | 56.80 | 84 | 04 | 14 | 18 | 84 | 04 | 14 | 325 | 329 | X |  | X | GLDL |  |  |
| 19840049A | CROZIER ST | 170 | 75 | 23.80 | 97 | 12.00 | 84 | 04 | 14 | 20 | 84 | 04 | 14 | NS | 105 | X |  | X | GLDL |  |  |

TABLE 2 - TEMPERATURE-SALINITY DATA

| DATASET | AREA | STN | LATITUDE | | LONGITUDE | | START | | | | STOP | | | DEPTHS(M) | | | | | | REPEAT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | DEG | MIN | DEG | MIN | YR | MN | DY | HR | YR | MN | DY | CAST | WATER | C | S | T | INSTR | HR | NO |
| 19840049A | CROZIER ST | 171 | 75 | 23.80 | 97 | 6.90 | 84 | 04 | 14 | 20 | 84 | 04 | 14 | NS | 210 | X | | X | GLDL | | |
| 19840049A | HAZEN ST | L03 | 77 | 7.20 | 108 | 32.70 | 84 | 04 | 14 | 20 | 84 | 04 | 14 | 539 | 544 | X | | X | GLDL | | |
| 19840049A | CROZIER ST | 172 | 75 | 23.70 | 96 | 59.90 | 84 | 04 | 14 | 21 | 84 | 04 | 14 | NS | 333 | X | | X | GLDL | | |
| 19840049A | MACLEAN ST | E01 | 77 | 47.10 | 105 | 45.40 | 84 | 04 | 14 | 23 | 84 | 04 | 14 | 180 | 186 | X | | X | GLDL | | |
| 19840049A | PR GUSTAF ADOLF | L06 | 77 | 42.00 | 106 | 7.70 | 84 | 04 | 14 | 23 | 84 | 04 | 14 | 224 | 229 | X | | X | GLDL | | |
| 19840049A | MACLEAN ST | E02 | 77 | 53.10 | 105 | 38.40 | 84 | 04 | 15 | 01 | 84 | 04 | 15 | 331 | 337 | X | | X | GLDL | | |
| 19840049A | MACLEAN ST | E04 | 78 | 12.40 | 104 | 35.10 | 84 | 04 | 15 | 02 | 84 | 04 | 15 | 508 | 513 | X | | X | GLDL | | |
| 19840049A | MACLEAN ST | E05 | 78 | 15.30 | 104 | 28.00 | 84 | 04 | 15 | 04 | 84 | 04 | 15 | 125 | 131 | X | | X | GLDL | | |
| 19840049A | PENNY ST | 164 | 76 | 41.70 | 97 | 9.20 | 84 | 04 | 15 | 18 | 84 | 04 | 15 | NS | 344 | X | | X | GLDL | | |
| 19840049A | PENNY ST | 165 | 76 | 43.20 | 97 | 2.10 | 84 | 04 | 15 | 18 | 84 | 04 | 15 | NS | 293 | X | | X | GLDL | | |
| 19840049A | PENNY ST | 162 | 76 | 37.80 | 97 | 32.00 | 84 | 04 | 15 | 19 | 84 | 04 | 15 | NS | 190 | X | | X | GLDL | | |
| 19840049A | PENNY ST | 163 | 76 | 39.50 | 97 | 20.00 | 84 | 04 | 15 | 19 | 84 | 04 | 15 | NS | 94 | X | | X | GLDL | | |
| 19840049A | PENNY ST | 160 | 76 | 33.90 | 97 | 50.40 | 84 | 04 | 15 | 20 | 84 | 04 | 15 | NS | 146 | X | | X | GLDL | | |
| 19840049A | PENNY ST | 161 | 76 | 35.80 | 97 | 43.70 | 84 | 04 | 15 | 20 | 84 | 04 | 15 | NS | 180 | X | | X | GLDL | | |
| 19840049A | WELLINGTON CH | 143 | 76 | 3.40 | 94 | 20.20 | 84 | 04 | 16 | 17 | 84 | 04 | 16 | NS | 101 | X | | X | GLDL | | |
| 19840049A | WELLINGTON CH | 144 | 76 | 8.60 | 94 | 15.30 | 84 | 04 | 16 | 17 | 84 | 04 | 16 | NS | 99 | X | | X | GLDL | | |
| 19840049A | WELLINGTON CH | 145 | 76 | 12.50 | 94 | 11.00 | 84 | 04 | 16 | 18 | 84 | 04 | 16 | NS | 80 | X | | X | GLDL | | |
| 19840049A | WELLINGTON CH | 146 | 76 | 14.80 | 94 | 9.20 | 84 | 04 | 16 | 18 | 84 | 04 | 16 | NS | 68 | X | | X | GLDL | | |
| 19840049A | PENNY ST | PS01 | 76 | 38.70 | 96 | 54.60 | 84 | 04 | 16 | NS | 85 | 04 | 16 | 43 | NS | X | | X | RCM4/m | | |
| 19840049A | PENNY ST | PS01 | 76 | 38.70 | 96 | 54.60 | 84 | 04 | 23 | NS | 84 | 09 | 10 | 131 | NS | X | | X | RCM4/m | | |
| 19840049A | PENNY ST | PS02 | 76 | 36.20 | 97 | 25.20 | 84 | 04 | 23 | NS | 85 | 04 | 18 | 138 | NS | X | | X | RCM4/m | | |
| 19840049A | PENNY ST | PS02 | 76 | 36.20 | 97 | 25.20 | 84 | 04 | 23 | NS | 85 | 04 | 12 | 49 | NS | X | | X | RCM4/m | | |
| 19840049A | MACLEAN ST | E03 | 78 | 1.00 | 105 | 15.00 | 84 | 04 | 24 | 17 | 84 | 04 | 24 | 385 | 390 | X | | X | GLDL | | |
| 19840049A | EDINGBURGH SEA | 167 | 77 | 2.30 | 100 | 13.00 | 84 | 04 | 24 | 19 | 84 | 04 | 24 | 348 | 353 | X | | X | GLDL | | |
| 19840049A | EDINGBURGH SEA | 166 | 76 | 51.40 | 98 | 37.00 | 84 | 04 | 24 | 20 | 84 | 04 | 24 | 454 | 459 | X | | X | GLDL | | |
| 19840049B | BALLANTYNE ST | P01.1 | 77 | 42.10 | 115 | 57.50 | 84 | 04 | 07 | 19 | 84 | 04 | 07 | 126 | 128 | X | | X | GLDL | | |
| 19840049B | BALLANTYNE ST | P02.1 | 77 | 44.50 | 116 | 18.20 | 84 | 04 | 07 | 20 | 84 | 04 | 07 | 182 | 184 | X | | X | GLDL | | |
| 19840049B | BALLANTYNE ST | P01.1 | 77 | 43.20 | 116 | 0.10 | 84 | 04 | 07 | NS | 85 | 04 | 29 | 35 | NS | X | | X | RCM4/m | | |
| 19840049B | BALLANTYNE ST | P01.1 | 77 | 43.20 | 116 | 0.10 | 84 | 04 | 07 | NS | 85 | 04 | 29 | 83 | NS | X | | X | RCM4/m | | |
| 19840049B | BALLANTYNE ST | P01.2 | 77 | 42.90 | 116 | 2.00 | 84 | 04 | 18 | 23 | 84 | 04 | 18 | 83 | 86 | X | | X | GLDL | | |
| 19840049B | BALLANTYNE ST | P02.4 | 77 | 42.70 | 116 | 22.00 | 84 | 04 | 18 | 24 | 84 | 04 | 18 | 149 | 151 | X | | X | GLDL | | |
| 19840049B | BALLANTYNE ST | P00 | 77 | 15.30 | 112 | 44.00 | 84 | 04 | 19 | 01 | 84 | 04 | 19 | 452 | 454 | X | | X | GLDL | | |
| 19840059 | NORWEGIAN BAY | O68 | 77 | 7.60 | 91 | 23.40 | 84 | 01 | 16 | NS | 84 | 04 | 23 | 95 | 95 | | | X | TG3A/m | | |
| 19840059 | NORWEGIAN BAY | | 77 | 8.00 | 91 | 23.90 | 84 | 01 | 18 | NS | 84 | 01 | 18 | 75 | 79 | X | | X | GLDL | 3 | 6 |
| 19840059 | NORWEGIAN BAY | | 77 | 8.00 | 91 | 23.90 | 84 | 04 | 22 | NS | 84 | 04 | 22 | 70 | 79 | X | | X | GLDL | 3 | 5 |
| 19840060 | AUDHILD BAY | 6702 | 81 | 32.50 | 91 | 10.00 | 84 | 05 | 28 | NS | 85 | 05 | 21 | 16.5 | 16.5 | | | X | TG12/m | | |
| 19840060 | MOULD BAY | 6955 | 76 | 13.80 | 119 | 34.00 | 84 | 05 | 30 | NS | 85 | 05 | 17 | 14.2 | 14.2 | | | X | TG12/m | | |
| 19840060 | ISACHSEN | 6910 | 78 | 47.00 | 103 | 30.00 | 84 | 06 | 01 | NS | 84 | 07 | 02 | 12.8 | 12.8 | | | X | TG3A/m | | |
| 19840060 | ISACHSEN | 6910 | 78 | 47.00 | 103 | 30.00 | 84 | 06 | 01 | NS | 85 | 05 | 21 | 12.8 | 12.8 | | | X | TG12/m | | |
| 19850015 | BALLANTYNE ST | | 77 | 43.20 | 116 | 0.10 | 85 | 04 | 24 | NS | 85 | 04 | 24 | 90 | NS | | | | NS | | |

TABLE 2 - TEMPERATURE-SALINITY DATA

| DATASET | AREA | STN | LATITUDE DEG | LATITUDE MIN | LONGITUDE DEG | LONGITUDE MIN | START YR | START MN | START DY | START HR | STOP YR | STOP MN | STOP DY | DEPTHS(M) CAST | DEPTHS(M) WATER | C | S | T | INSTR | REPEAT HR | REPEAT NO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19850042 | MOULD BAY | 6955 | 76 | 13.80 | 119 | 34.00 | 85 | 05 | 17 | NS | 86 | 04 | 14 | 14.2 | 14.2 |  |  | X | TG12/m |  |  |
| 19850042 | MOULD BAY | 6955 | 76 | 13.80 | 119 | 34.00 | 85 | 05 | 17 | NS | 86 | 05 | 20 | 14.2 | 14.2 |  |  | X | TG3A/m |  |  |
| 19850042 | AUDHILD BAY | 6702 | 81 | 32.50 | 91 | 10.00 | 85 | 05 | 20 | NS | 86 | 05 | 18 | 16.5 | 16.5 |  |  | X | TG12/m |  |  |
| 19850042 | AUDHILD BAY | 6702 | 81 | 32.50 | 91 | 10.00 | 85 | 05 | 20 | NS | 86 | 05 | 18 | 16.5 | 16.5 |  |  | X | WLR5/m |  |  |
| 19850042 | ISACHSEN | 6910 | 78 | 47.00 | 103 | 30.00 | 85 | 05 | 21 | NS | 86 | 05 | 19 | 12.8 | 12.8 |  |  | X | TG3A/m |  |  |
| 19850042 | ISACHSEN | 6910 | 78 | 47.00 | 103 | 30.00 | 85 | 05 | 21 | NS | 86 | 05 | 19 | 12.8 | 12.8 |  |  | X | TG12/m |  |  |
| 19850044 | PENNY ST | PS2 | 76 | 38.70 | 96 | 54.60 | 85 | 04 | 08 | 21 | 85 | 04 | 08 | 184 | NS | X |  | X | GLDL |  |  |
| 19850044 | PENNY ST | P01.1 | 77 | 43.20 | 116 | 0.10 | 85 | 04 | 22 | 18 | 85 | 04 | 22 | 86 | NS | X |  | X | GLDL |  |  |
| 19860018 | WELLINGTON CH | 2 | 75 | 12.10 | 93 | 14.00 | 86 | 08 | 28 | 04 | 86 | 08 | 28 | 52 | NS | X |  | X | GLDL |  |  |
| 19860018 | WELLINGTON CH | 6 | 76 | 2.70 | 93 | 10.00 | 86 | 08 | 29 | 04 | 86 | 08 | 29 | 52 | NS | X |  | X | GLDL |  |  |
| 19860018 | WELLINGTON CH | 49 | 76 | 9.20 | 93 | 2.40 | 86 | 09 | 02 | 06 | 86 | 09 | 02 | 52 | NS | X |  | X | GLDL |  |  |
| 19860018 | WELLINGTON CH | 60 | 74 | 47.00 | 92 | 17.80 | 86 | 09 | 03 | 06 | 86 | 09 | 03 | 55 | NS | X |  | X | GLDL |  |  |
| 19860018 | AUSTIN CH | 84 | 75 | 47.80 | 103 | 58.50 | 86 | 09 | 07 | 04 | 86 | 09 | 07 | 200 | NS | X |  | X | GLDL |  |  |
| 19860018 | AUSTIN CH | 93 | 75 | 43.60 | 104 | 28.50 | 86 | 09 | 08 | 03 | 86 | 09 | 08 | 123 | NS | X |  | X | GLDL |  |  |
| 19860018 | AUSTIN CH | 101 | 75 | 27.80 | 102 | 41.00 | 86 | 09 | 08 | 21 | 86 | 09 | 08 | 55 | NS | X |  | X | GLDL |  |  |
| 19860018 | AUSTIN CH | 106 | 75 | 18.50 | 103 | 6.50 | 86 | 09 | 09 | 02 | 86 | 09 | 09 | 104 | NS | X |  | X | GLDL |  |  |
| 19860018 | BYAM CH | 122 | 74 | 50.20 | 104 | 25.40 | 86 | 09 | 11 | 06 | 86 | 09 | 11 | 160 | NS | X |  | X | GLDL |  |  |
| 19860018 | BARROW STRAIT | 134 | 74 | 49.50 | 97 | 56.00 | 86 | 09 | 12 | 03 | 86 | 09 | 12 | 123 | NS | X |  | X | GLDL |  |  |

## 11.2 CURRENT-METER DATA

The listings contain the following information:

| | |
|---|---|
| AREA | General area of station. |
| STN | Station number; wherever possible it is the station number assigned in the original data source. Multiple meters are differentiated as 1.1, 1.2, 1.3, for example. |
| LAT, LONG | In degrees and minutes. |
| START/STOP | Year, month and day instrument recorded over. If the data represent a single current profile, then the start and stop dates will be the same. |
| EFF LEN | Effective record length, days of both speed and direction data. May be blank if not obvious from the available documentation. |
| DT (MN) | Sampling rate in minutes. |
| DEPTHS-INSTR | Instrument depth, measured from surface, in metres. |
| DEPTH-WATER | Water depth in metres. |
| INSTR TYPE | Instrument type:<br>AAND - Aanderaa RCM-4 or RCM5<br>AMF - AMF vector averaging<br>BEND - Bendix<br>BR - Braincon<br>CMDR - CMDR (modified to record on Aanderaa-type tape)<br>CUSH - Cushing electromagnetic<br>DOWS - Dows- Deep Ocean Work System vector-measuring<br>E-M - Electromagnetic<br>ENDE - Endeco<br>GEOD - Geodyne<br>GO - General Oceanics<br>HYDR - Hydrowerstatten<br>HYPR - Hydro Products (Savonius rotor/vane)<br>HYTC - Hytech<br>MARA - Marine Advisors<br>M-MC - Marsh McBirney electromagnetic<br>NEYR - Neyrpic CM<br>NB - Neil Brown acoustic<br>NS - Not specified<br>OSS4 - Ocean Systems model S4 electromagnetic<br>RCM4 - Aanderaa RCM-4<br>RICH - Richardson<br>SETR - Sea-Track |
| ADDIT SENSOR | Other parameters measured - pressure (P), temperature (T), conductivity (C). Each measurement is qualified by one of the following:<br>X - measurements of this parameter were made |

'NS' entries indicate unavailable or inapplicable data.

## TABLE 2 - CURRENT-METER DATA

| DATASET | AREA | STN | LATITUDE DEG | LATITUDE MIN | LONGITUDE DEG | LONGITUDE MIN | START YR | START MN | START DY | STOP YR | STOP MN | STOP DY | EFF_LEN (DAY) | DT (MIN) | DEPTH (M) INST | DEPTH (M) WATER | INST TYPE | P | T | C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19610009 | PR GUSTAF ADOLF |  | 78 | 28.00 | 105 | 16.00 | 61 | 04 | 13 | 61 | 04 | 13 | 01 | NS | 30 | 478 | E-M |  |  |  |
| 19610009 | PR GUSTAF ADOLF |  | 78 | 47.00 | 105 | 31.00 | 61 | 04 | 25 | 61 | 04 | 25 | 01 | NS | 30 | 298 | E-M |  |  |  |
| 19610009 | PR GUSTAF ADOLF |  | 78 | 35.00 | 105 | 28.00 | 61 | 04 | 30 | 61 | 04 | 30 | 01 | NS | 30 | 403 | E-M |  |  |  |
| 19610009 | PR GUSTAF ADOLF |  | 78 | 28.00 | 105 | 16.00 | 61 | 05 | 03 | 61 | 05 | 03 | 01 | NS | 30 | 478 | E-M |  |  |  |
| 19740018 | MACLEAN ST | 1 | 78 | 8.92 | 101 | 12.67 | 74 | 06 | 20 | 74 | 07 | 05 | 00 | NS | NS | 135 | NS |  |  |  |
| 19740018 | MACLEAN ST | 2 | 78 | 7.88 | 101 | 40.37 | 74 | 06 | 20 | 74 | 07 | 07 | 00 | NS | NS | 68 | NS |  |  |  |
| 19740018 | MACLEAN ST | 3 | 78 | 0.00 | 101 | 15.00 | 74 | 06 | 20 | 74 | 07 | 08 | 00 | NS | NS | 262 | NS |  |  |  |
| 19740018 | MACLEAN ST | 4 | 77 | 49.00 | 100 | 47.00 | 74 | 06 | 20 | 74 | 07 | 08 | 00 | NS | NS | 230 | NS |  |  |  |
| 19740018 | EDINGBURGH SEA | 5 | 77 | 40.00 | 99 | 6.05 | 74 | 06 | 20 | 74 | 07 | 01 | 00 | NS | NS | 175 | NS |  |  |  |
| 19740018 | EDINGBURGH SEA | 6 | 77 | 35.00 | 101 | 0.00 | 74 | 06 | 20 | 74 | 07 | 01 | 00 | NS | NS | 349 | NS |  |  |  |
| 19740018 | MACLEAN ST | 7.1 | 78 | 5.00 | 101 | 6.00 | 74 | 06 | 20 | 74 | 07 | 08 | 00 | NS | NS | 60 | NS |  |  |  |
| 19740018 | MACLEAN ST | 7.2 | 78 | 5.00 | 101 | 6.00 | 74 | 06 | 21 | 74 | 06 | 22 | 01 | 60 | 02 | 60 | NS |  |  |  |
| 19740018 | MACLEAN ST | 7.3 | 78 | 5.00 | 101 | 6.00 | 74 | 07 | 04 | 74 | 07 | 05 | 01 | 60 | NS | 60 | NS |  |  |  |
| 19740025 | GREELY FD | 1 | 80 | 34.40 | 79 | 44.50 | 74 | 04 | 14 | 74 | 07 | 23 | NS | 60 | 01 | 221 | RCM4 | X |  |  |
| 19740025 | GREELY FD | 1 | 80 | 34.40 | 79 | 44.50 | 74 | 04 | 14 | 74 | 07 | 23 | NS | 60 | 220 | 221 | RCM4 | X |  |  |
| 19740025 | GREELY FD | 3 | 80 | 32.90 | 79 | 44.50 | 74 | 04 | 15 | 74 | 07 | 23 | NS | 60 | 01 | 354 | RCM4 | X |  |  |
| 19740025 | GREELY FD | 3 | 80 | 32.90 | 79 | 44.50 | 74 | 04 | 15 | 74 | 07 | 23 | NS | 60 | 353 | 354 | RCM4 | X |  |  |
| 19740025 | GREELY FD | 2 | 80 | 33.60 | 79 | 44.50 | 74 | 04 | 17 | 74 | 07 | 23 | NS | 60 | 01 | 209 | RCM4 | X |  |  |
| 19740025 | GREELY FD | 2 | 80 | 33.60 | 79 | 44.50 | 74 | 04 | 17 | 74 | 07 | 23 | NS | 60 | 208 | 209 | RCM4 | X |  |  |
| 19740134 | BYAM CH | 333 | 75 | 31.10 | 105 | 19.00 | 74 | 03 | 31 | 74 | 04 | 20 | 12 | NS | 06 | 88 | NS |  |  |  |
| 19740134 | BYAM CH | 351 | 75 | 32.00 | 105 | 26.00 | 74 | 03 | 31 | 74 | 04 | 20 | 18 | NS | 61 | 64 | NS |  |  |  |
| 19740134 | BYAM CH | 375 | 75 | 31.00 | 105 | 19.00 | 74 | 03 | 31 | 74 | 04 | 20 | 16 | NS | 85 | 88 | NS |  |  |  |
| 19740134 | BYAM CH | 324 | 75 | 29.20 | 105 | 3.00 | 74 | 04 | 01 | 74 | 04 | 20 | 18 | NS | 04 | 143 | NS |  |  |  |
| 19740134 | BYAM CH | 328 | 75 | 29.20 | 105 | 3.00 | 74 | 04 | 01 | 74 | 04 | 20 | 20 | NS | 140 | 143 | NS |  |  |  |
| 19740134 | BYAM CH | 327 | 75 | 27.80 | 104 | 51.00 | 74 | 04 | 03 | 74 | 04 | 20 | 16 | NS | 85 | 146 | NS |  |  |  |
| 19740134 | BYAM CH | 334 | 75 | 27.80 | 104 | 51.00 | 74 | 04 | 03 | 74 | 04 | 20 | 06 | NS | 143 | 146 | NS |  |  |  |
| 19740134 | BYAM CH | 376 | 75 | 26.70 | 104 | 40.00 | 74 | 04 | 03 | 74 | 04 | 20 | 08 | NS | 82 | 85 | NS |  |  |  |
| 19750016 | HAZEN ST | 1 | 76 | 34.00 | 113 | 28.00 | 75 | 06 | 01 | 75 | 06 | 30 | 10 | 30 | NS | 355 | RCM4 | X | X |  |
| 19750016 | HAZEN ST | 2 | 76 | 47.00 | 112 | 27.00 | 75 | 06 | 03 | 75 | 07 | 20 | 04 | 30 | 05 | 390 | RCM4 | X | X |  |
| 19750016 | FITZWILLIAM ST | 4 | 76 | 44.00 | 115 | 25.00 | 75 | 06 | 09 | 75 | 07 | 19 | 41 | 30 | 05 | 305 | RCM4 | X | X |  |
| 19750016 | FITZWILLIAM ST | 5 | 76 | 33.00 | 115 | 47.00 | 75 | 06 | 10 | 75 | 07 | 03 | 24 | 30 | 05 | 335 | RCM4 | X | X |  |
| 19750016 | FITZWILLIAM ST | 3 | 76 | 36.00 | 114 | 15.00 | 75 | 06 | 11 | 75 | 07 | 03 | 23 | 30 | 05 | 320 | RCM4 | X | X |  |
| 19750017 | E. SABINE PEN | 6 | 76 | 24.60 | 107 | 20.83 | 75 | 04 | 17 | 75 | 05 | 08 | NS | 05 | NS | 354 | RCM4 |  |  |  |
| 19750017 | E. SABINE PEN | 7 | 76 | 27.95 | 107 | 20.58 | 75 | 05 | 08 | 75 | 06 | 17 | NS | 05 | NS | 357 | RCM4 |  |  |  |

TABLE 2 - CURRENT-METER DATA

| DATASET | AREA | STN | LATITUDE | | LONGITUDE | | START | | | STOP | | | EFF_LEN | DT | DEPTH (M) | | INST | P | T | C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | DEG | MIN | DEG | MIN | YR | MN | DY | YR | MN | DY | (DAY) | (MIN) | INST | WATER | TYPE | | | |
| 19750018 | DESBARATS ST | 9 | 76 | 50.00 | 106 | 0.00 | 75 | 01 | 30 | 75 | 06 | 23 | 145 | 60 | 05 | 155 | RCM4 | | X | X |
| 19750018 | MACLEAN ST | 10 | 77 | 20.00 | 102 | 30.00 | 75 | 02 | 06 | 75 | 07 | 06 | 00 | 60 | 05 | 229 | RCM4 | | X | X |
| 19750018 | HAZEN ST | 8 | 77 | 0.00 | 110 | 30.00 | 75 | 02 | 09 | 75 | 06 | 23 | 00 | 60 | 05 | 433 | RCM4 | | X | X |
| 19750019 | BYAM MARTIN CH | 11 | 76 | 24.67 | 107 | 48.78 | 75 | 03 | 02 | 75 | 04 | 12 | 03 | 60 | 03 | 132 | CUSH | | | |
| 19750020 | HECLA & GRIPER | 1 | 76 | 21.92 | 110 | 53.08 | 75 | 12 | 06 | 76 | 02 | 27 | 83 | NS | 10 | 138 | RCM4 | | X | X |
| 19750021 | MACLEAN ST | 3.1 | 78 | 5.37 | 101 | 50.67 | 76 | 01 | 13 | 76 | 02 | 04 | 23 | NS | 05 | 60 | RCM4 | | X | X |
| 19750021 | MACLEAN ST | 3.2 | 78 | 5.37 | 101 | 50.67 | 76 | 02 | 04 | 76 | 03 | 04 | 30 | NS | 05 | 60 | RCM4 | | X | X |
| 19750021 | MACLEAN ST | 3.4 | 78 | 5.37 | 101 | 50.67 | 76 | 03 | 08 | 76 | 04 | 20 | 00 | 60 | 05 | 60 | CUSH | | | |
| 19750021 | MACLEAN ST | 3.5 | 78 | 5.37 | 101 | 50.67 | 76 | 03 | 08 | 76 | 04 | 20 | 00 | 60 | 21 | 60 | CUSH | | | |
| 19750021 | MACLEAN ST | 3.6 | 78 | 5.37 | 101 | 50.67 | 76 | 03 | 08 | 76 | 04 | 20 | 00 | 60 | 40 | 60 | CUSH | | | |
| 19750021 | MACLEAN ST | 3.7 | 78 | 5.37 | 101 | 50.67 | 76 | 03 | 08 | 76 | 04 | 20 | 00 | 60 | 50 | 60 | CUSH | | | |
| 19750021 | MACLEAN ST | 3.3 | 78 | 5.37 | 101 | 50.67 | 76 | 03 | 25 | 76 | 04 | 21 | 28 | NS | 05 | 60 | RCM4 | | X | X |
| 19750022 | HAZEN ST | 8.1 | 77 | 0.00 | 110 | 30.00 | 75 | 12 | 04 | 76 | 05 | 25 | 47 | 60 | NS | 325 | CUSH | | | |
| 19750022 | PR GUSTAF ADOLF | 7.1 | 78 | 30.00 | 107 | 0.00 | 76 | 01 | 01 | 76 | 03 | 28 | 88 | 60 | NS | 385 | CUSH | | | |
| 19750022 | PR GUSTAF ADOLF | 7.2 | 78 | 30.00 | 107 | 0.00 | 76 | 03 | 31 | 76 | 05 | 29 | 60 | 60 | NS | 385 | CUSH | | | |
| 19750022 | PR GUSTAF ADOLF | 8.2 | 77 | 0.00 | 110 | 30.00 | 76 | 04 | 09 | 76 | 05 | 25 | 47 | 60 | NS | 325 | CUSH | | | |
| 19750039 | GREELY FD | 1 | 80 | 34.40 | 79 | 43.70 | 75 | 04 | 01 | 75 | 06 | 15 | NS | 10 | 213 | 214 | RCM4 | | X | |
| 19750039 | GREELY FD | 1 | 80 | 34.40 | 79 | 43.70 | 75 | 06 | 09 | 75 | 06 | 21 | NS | 10 | 220 | 221 | RCM4 | | X | |
| 19750039 | GREELY FD | 2 | 80 | 33.60 | 79 | 44.50 | 75 | 06 | 09 | 75 | 06 | 21 | NS | 10 | 208 | 209 | RCM4 | | X | |
| 19750039 | GREELY FD | 4 | 80 | 33.30 | 79 | 37.90 | 75 | 06 | 09 | 75 | 06 | 21 | NS | 10 | 353 | 354 | RCM4 | | X | |
| 19760014 | HECLA & GRIPER | 2 | 76 | 24.90 | 111 | 11.22 | 76 | 01 | 15 | 76 | 04 | 08 | 28 | NS | 10 | 286 | RCM4 | | X | X |
| 19760014 | HECLA & GRIPER | 2.2 | 76 | 24.90 | 111 | 11.22 | 76 | 02 | 12 | 76 | 04 | 08 | 04 | NS | 10 | 286 | RCM4 | | X | X |
| 19760014 | HECLA & GRIPER | 2.3 | 76 | 24.90 | 111 | 11.22 | 76 | 04 | 08 | 76 | 04 | 17 | 00 | NS | 10 | 286 | RCM4 | | X | X |
| 19760015 | ARNOTT ST | 4 | 76 | 18.00 | 103 | 28.00 | 76 | 05 | 15 | 76 | 06 | 16 | 00 | 30 | 40 | 40 | RCM4 | | X | X |
| 19760015 | ERSKINE IN | 6 | 76 | 19.00 | 102 | 13.00 | 76 | 05 | 16 | 76 | 06 | 16 | 32 | 30 | 105 | 150 | RCM4 | | X | X |
| 19760015 | ERSKINE IN | 5 | 76 | 19.00 | 102 | 13.00 | 76 | 05 | 17 | 76 | 06 | 16 | 31 | 30 | 105 | 150 | RCM4 | | X | X |
| 19760016 | PENNY ST | 12.1 | 76 | 41.50 | 97 | 7.00 | 76 | 04 | 13 | 76 | 05 | 06 | 18 | 15 | NS | 187 | M-MC | | | |
| 19760016 | PENNY ST | 12.2 | 76 | 41.50 | 97 | 7.00 | 76 | 04 | 13 | 76 | 05 | 06 | 23 | 15 | NS | 187 | ENDE | | | |
| 19760016 | PENNY ST | 12.3 | 76 | 41.50 | 97 | 7.00 | 76 | 04 | 13 | 76 | 04 | 14 | .5 | 60 | NS | 187 | ENDE | | | |

## TABLE 2 - CURRENT-METER DATA

| DATASET | AREA | STN | LATITUDE DEG | LATITUDE MIN | LONGITUDE DEG | LONGITUDE MIN | START YR | START MN | START DY | STOP YR | STOP MN | STOP DY | EFF_LEN (DAY) | DT (MIN) | DEPTH (M) INST | DEPTH (M) WATER | INST TYPE | P | T | C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19760016 | PENNY ST | 14.3 | 76 | 38.50 | 97 | 23.80 | 76 | 04 | 16 | 76 | 04 | 17 | .5 | 60 | NS | 260 | ENDE | | | |
| 19760016 | PENNY ST | 14.1 | 76 | 38.50 | 97 | 23.80 | 76 | 04 | 17 | 76 | 05 | 07 | 20 | 15 | NS | 260 | M-MC | | | |
| 19760016 | PENNY ST | 14.2 | 76 | 38.50 | 97 | 23.80 | 76 | 04 | 17 | 76 | 05 | 07 | 20 | 15 | NS | 260 | ENDE | | | |
| 19760017 | BYAM CH | B1 | 75 | 32.70 | 105 | 25.20 | 76 | 04 | 20 | 76 | 06 | 25 | 96 | 60 | .5 | 45 | RCM4 | | | |
| 19760017 | BYAM CH | B2.1 | 75 | 30.20 | 105 | 8.70 | 76 | 04 | 22 | 76 | 07 | 15 | 83 | 60 | .5 | 87 | RCM4 | | | |
| 19760017 | BYAM CH | B4.1 | 75 | 26.90 | 104 | 46.50 | 76 | 04 | 28 | 76 | 06 | 28 | 61 | 60 | .5 | 150 | RCM4 | | | |
| 19760017 | BYAM CH | B2.2 | 75 | 30.20 | 105 | 8.70 | 76 | 05 | 01 | 76 | 06 | 28 | 58 | 60 | 85 | 87 | RCM4 | | X | X |
| 19760017 | AUSTIN CH | A5.1 | 75 | 31.50 | 102 | 49.20 | 76 | 05 | 02 | 76 | 06 | 15 | 41 | 60 | .5 | 56 | RCM4 | | | |
| 19760017 | AUSTIN CH | A2.2 | 75 | 26.40 | 103 | 38.70 | 76 | 05 | 08 | 77 | 03 | 14 | 104 | 60 | 142 | 144 | RCM4 | | X | X |
| 19760017 | AUSTIN CH | A3.1 | 75 | 28.20 | 103 | 21.60 | 76 | 05 | 08 | 76 | 06 | 18 | 40 | 60 | .5 | 170 | RCM4 | | | |
| 19760017 | AUSTIN CH | A2.1 | 75 | 26.40 | 103 | 38.70 | 76 | 05 | 09 | 76 | 07 | 02 | 53 | 60 | .5 | 144 | RCM4 | | | |
| 19760017 | AUSTIN CH | A1.1 | 75 | 25.20 | 103 | 50.10 | 76 | 05 | 10 | 76 | 07 | 21 | 72 | 60 | .5 | 110 | RCM4 | | | |
| 19760017 | AUSTIN CH | A1.2 | 75 | 25.20 | 103 | 50.10 | 76 | 05 | 10 | 76 | 07 | 21 | 71 | 60 | 100 | 110 | RCM4 | | X | X |
| 19760017 | AUSTIN CH | A3.2 | 75 | 28.20 | 103 | 21.60 | 76 | 05 | 10 | 76 | 06 | 22 | 42 | 60 | 168 | 170 | RCM4 | | X | X |
| 19760017 | AUSTIN CH | A4.2 | 75 | 30.20 | 103 | 1.00 | 76 | 05 | 10 | 76 | 06 | 23 | 43 | 60 | 240 | 242 | RCM4 | | X | X |
| 19760017 | AUSTIN CH | A5.2 | 75 | 31.50 | 102 | 49.20 | 76 | 05 | 10 | 76 | 05 | 17 | 06 | 60 | 54 | 56 | RCM4 | | X | X |
| 19760017 | BYAM CH | B3.1 | 75 | 26.90 | 104 | 57.40 | 76 | 05 | 10 | 76 | 06 | 10 | 30 | 60 | 62 | 64 | RCM4 | | X | X |
| 19760017 | BYAM CH | B5.1 | 75 | 25.50 | 104 | 37.80 | 76 | 05 | 12 | 76 | 07 | 25 | 73 | 60 | .5 | 46 | RCM4 | | | |
| 19760017 | BYAM CH | B5.2 | 75 | 25.50 | 104 | 37.80 | 76 | 05 | 12 | 76 | 06 | 29 | 47 | 60 | 44 | 46 | RCM4 | | X | |
| 19760017 | AUSTIN CH | A4.1 | 75 | 30.20 | 103 | 1.00 | 76 | 05 | 13 | 76 | 07 | 22 | 79 | 60 | .5 | 242 | RCM4 | | | |
| 19770022 | HECLA & GRIPER | 1.1 | 76 | 17.00 | 111 | 21.00 | 77 | 03 | 24 | 77 | 04 | 16 | 24 | 60 | 10 | 290 | RCM4 | | X | X |
| 19770022 | HECLA & GRIPER | 1.2 | 76 | 17.00 | 111 | 21.00 | 77 | 04 | 17 | 77 | 05 | 01 | 15 | 60 | 10 | 290 | RCM4 | | X | X |
| 19770023 | EDINGBURGH SEA | 2.2 | 77 | 37.57 | 99 | 27.43 | 77 | 03 | 02 | 77 | 06 | 29 | 120 | 60 | 02 | 396 | RCM4 | | X | X |
| 19770023 | HAZEN ST | 3.2 | 76 | 58.05 | 110 | 40.43 | 77 | 03 | 14 | 77 | 07 | 01 | 109 | 60 | 02 | 120 | RCM4 | | X | X |
| 19770024 | HAZEN ST | 1 | 76 | 24.00 | 113 | 11.00 | 78 | 01 | 18 | 78 | 04 | 17 | 90 | 30 | 10 | 232 | RCM4 | | X | X |
| 19770025 | HAZEN ST | 2 | 76 | 43.00 | 109 | 46.00 | 78 | 01 | 11 | 78 | 04 | 09 | 89 | 30 | 10 | 165 | RCM4 | | X | X |
| 19770026 | CROZIER ST | C1.1 | 75 | 31.60 | 97 | 22.20 | 77 | 03 | 27 | 77 | 06 | 11 | 76 | 60 | .5 | 64 | RCM4 | | | |
| 19770026 | CROZIER ST | C1.2 | 75 | 31.60 | 97 | 22.20 | 77 | 03 | 28 | 77 | 06 | 11 | 75 | 60 | 25 | 64 | RCM4 | | X | X |
| 19770026 | CROZIER ST | C2.3 | 75 | 31.50 | 97 | 19.80 | 77 | 03 | 29 | 77 | 07 | 01 | 94 | 60 | 52 | 54 | RCM4 | | X | X |
| 19770026 | CROZIER ST | C1.3 | 75 | 31.60 | 97 | 22.20 | 77 | 03 | 30 | 77 | 04 | 14 | 17 | 60 | 62 | 64 | RCM4 | | X | X |
| 19770026 | CROZIER ST | C2.1 | 75 | 31.50 | 97 | 19.80 | 77 | 03 | 30 | 77 | 06 | 11 | 73 | 60 | .5 | 54 | RCM4 | | | |
| 19770026 | CROZIER ST | C2.2 | 75 | 31.50 | 97 | 19.80 | 77 | 03 | 30 | 77 | 06 | 11 | 72 | 60 | 25 | 54 | RCM4 | | X | X |
| 19770026 | CROZIER ST | C6.2 | 75 | 28.80 | 97 | 2.90 | 77 | 04 | 03 | 77 | 08 | 07 | 125 | 60 | 271 | 273 | RCM4 | | X | X |
| 19770026 | CROZIER ST | C6.1 | 75 | 28.80 | 97 | 2.90 | 77 | 04 | 04 | 77 | 06 | 12 | 69 | 60 | .5 | 273 | RCM4 | | | |

TABLE 2 - CURRENT-METER DATA

| DATASET | AREA | STN | LATITUDE DEG | LATITUDE MIN | LONGITUDE DEG | LONGITUDE MIN | START YR | START MN | START DY | STOP YR | STOP MN | STOP DY | EFF_LEN (DAY) | DT (MIN) | DEPTH (M) INST | DEPTH (M) WATER | INST TYPE | P | T | C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19770026 | CROZIER ST | C5.4 | 75 | 30.00 | 97 | 5.10 | 77 | 04 | 05 | 78 | 03 | 21 | 350 | 60 | 317 | 319 | RCM4 | | X | X |
| 19770026 | CROZIER ST | C5.1 | 75 | 30.00 | 97 | 5.10 | 77 | 04 | 06 | 77 | 06 | 12 | 66 | 60 | .5 | 319 | RCM4 | | | |
| 19770026 | CROZIER ST | C5.2 | 75 | 30.00 | 97 | 5.10 | 77 | 04 | 07 | 77 | 06 | 13 | 67 | 60 | 75 | 319 | RCM4 | | X | X |
| 19770026 | CROZIER ST | C5.3 | 75 | 30.00 | 97 | 5.10 | 77 | 04 | 07 | 77 | 06 | 14 | 68 | 60 | 200 | 319 | RCM4 | | X | X |
| 19770026 | CROZIER ST | C4.3 | 75 | 30.30 | 97 | 8.00 | 77 | 04 | 09 | 78 | 03 | 22 | 347 | 60 | 278 | 280 | RCM4 | | X | X |
| 19770026 | CROZIER ST | C4.1 | 75 | 30.30 | 97 | 8.00 | 77 | 04 | 10 | 77 | 06 | 14 | 65 | 60 | .5 | 202 | RCM4 | | | |
| 19770026 | CROZIER ST | C4.2 | 75 | 30.30 | 97 | 8.00 | 77 | 04 | 12 | 77 | 06 | 14 | 63 | 60 | 200 | 280 | RCM4 | | X | X |
| 19770026 | CROZIER ST | C3.1 | 75 | 30.50 | 97 | 10.40 | 77 | 04 | 13 | 77 | 06 | 12 | 00 | 60 | .5 | 94 | RCM4 | | | |
| 19770026 | CROZIER ST | C3.2 | 75 | 30.50 | 97 | 10.40 | 77 | 04 | 13 | 77 | 08 | 09 | 118 | 60 | 92 | 94 | RCM4 | | X | |
| 19770026 | PULLEN ST | P3.3 | 75 | 26.50 | 96 | 5.90 | 77 | 04 | 20 | 77 | 08 | 11 | 113 | 60 | 54 | 56 | RCM4 | | X | X |
| 19770026 | PULLEN ST | P3.1 | 75 | 26.50 | 96 | 5.90 | 77 | 04 | 21 | 77 | 06 | 15 | 55 | 60 | .5 | 56 | RCM4 | | | |
| 19770026 | PULLEN ST | P3.2 | 75 | 26.50 | 96 | 5.90 | 77 | 04 | 21 | 77 | 06 | 15 | 55 | 60 | 25 | 56 | RCM4 | | X | X |
| 19770026 | CROZIER ST | C4.3 | 75 | 30.30 | 97 | 8.00 | 78 | 01 | 01 | 78 | 03 | 22 | 81 | 60 | 278 | 280 | RCM4 | | X | X |
| 19770033 | MACLEAN ST | 1 | 77 | 31.60 | 104 | 24.10 | 77 | 11 | 28 | 78 | 07 | 18 | NS | NS | 30 | 259 | RCM4 | | | |
| 19770033 | MACLEAN ST | 1 | 77 | 31.60 | 104 | 24.10 | 77 | 11 | 28 | 78 | 07 | 18 | NS | NS | 05 | 259 | RCM4 | | | |
| 19770033 | HAZEN ST | 2 | 77 | 5.60 | 111 | 8.80 | 78 | 02 | 23 | 78 | 07 | 17 | NS | NS | 30 | 361 | RCM4 | | | |
| 19770033 | HAZEN ST | 2 | 77 | 5.60 | 111 | 8.80 | 78 | 02 | 23 | 78 | 07 | 17 | NS | NS | 05 | 361 | RCM4 | | | |
| 19770033 | W. LOUGHEED IS | 3 | 76 | 54.30 | 106 | 52.50 | 78 | 02 | 25 | 78 | 07 | 16 | NS | NS | 30 | 180 | RCM4 | | | |
| 19770033 | W. LOUGHEED IS | 3 | 76 | 54.30 | 106 | 52.50 | 78 | 02 | 25 | 78 | 07 | 16 | NS | NS | 05 | 180 | RCM4 | | | |
| 19770033 | EDINGBURGH SEA | 4 | 77 | 30.00 | 98 | 0.00 | 78 | 02 | 25 | 78 | 07 | 16 | NS | NS | 05 | 108 | RCM4 | | | |
| 19770033 | EDINGBURGH SEA | 4 | 77 | 30.00 | 98 | 0.00 | 78 | 02 | 25 | 78 | 07 | 16 | NS | NS | 30 | 108 | RCM4 | | | |
| 19770033 | PR GUSTAF ADOLF | 5 | 77 | 41.30 | 107 | 48.30 | 78 | 04 | 10 | 78 | 07 | 18 | NS | NS | 30 | 504 | RCM4 | | | |
| 19770033 | PR GUSTAF ADOLF | 5 | 77 | 41.30 | 107 | 48.30 | 78 | 04 | 10 | 78 | 07 | 18 | NS | NS | 05 | 504 | RCM4 | | | |
| 19780007 | AUSTIN CH | 82.1 | 75 | 27.30 | 103 | 5.40 | 78 | 03 | 15 | 78 | 04 | 26 | 00 | 10 | 05 | 180 | RCM4 | | X | X |
| 19780007 | AUSTIN CH | 82.2 | 75 | 27.30 | 103 | 5.40 | 78 | 03 | 15 | 78 | 03 | 26 | 11 | 10 | 50 | 180 | RCM4 | | X | X |
| 19780007 | AUSTIN CH | 92 | 75 | 11.10 | 101 | 6.70 | 78 | 03 | 15 | 78 | 04 | 26 | 00 | 10 | 04 | 155 | RCM4 | | X | X |
| 19780007 | AUSTIN CH | 95 | 75 | 7.40 | 102 | 59.60 | 78 | 03 | 15 | 78 | 04 | 19 | 17 | 10 | 05 | 147 | RCM4 | | X | X |
| 19780010 | E. SABINE PEN | 3.2 | 76 | 25.40 | 108 | 28.72 | 78 | 01 | 22 | 78 | 03 | 25 | 00 | 30 | 49 | 58 | RCM4 | | X | X |
| 19780010 | E. SABINE PEN | 3.1 | 76 | 25.40 | 108 | 28.72 | 78 | 01 | 23 | 78 | 04 | 25 | 93 | 30 | 49 | 58 | RCM4 | | X | X |
| 19780010 | E. SABINE PEN | 3.3 | 76 | 25.40 | 108 | 28.72 | 78 | 03 | 27 | 78 | 04 | 11 | 16 | 30 | 10 | 58 | RCM4 | | X | X |
| 19780011 | EDINGBURGH SEA | 5.2 | 77 | 19.01 | 99 | 55.35 | 78 | 01 | 23 | 78 | 06 | 04 | 123 | 30 | 03 | 234 | RCM4 | | X | X |
| 19780011 | NORWEGIAN BAY | 4.1 | 78 | 3.20 | 92 | 6.77 | 78 | 01 | 25 | 78 | 06 | 04 | 131 | 30 | 02 | 490 | RCM4 | | X | X |
| 19780012 | WELLINGTON CH | 3.2 | 75 | 14.92 | 92 | 52.00 | 78 | 04 | 03 | 78 | 07 | 08 | 96 | 60 | 100 | 160 | RCM4 | | X | X |
| 19780012 | WELLINGTON CH | 3.1 | 75 | 14.92 | 92 | 52.00 | 78 | 04 | 04 | 78 | 07 | 08 | 94 | 60 | 20 | 160 | RCM4 | | X | X |
| 19780012 | WELLINGTON CH | 4 | 75 | 14.33 | 92 | 37.50 | 78 | 04 | 06 | 78 | 07 | 08 | 92 | 60 | 12 | 188 | RCM4 | | X | X |
| 19780012 | WELLINGTON CH | 2.1 | 75 | 14.83 | 93 | 0.50 | 78 | 04 | 19 | 78 | 07 | 09 | 81 | 20 | 12 | 146 | RCM4 | | X | X |

TABLE 2 - CURRENT-METER DATA

| DATASET | AREA | STN | LATITUDE | | LONGITUDE | | START | | | STOP | | | EFF_LEN | DT | DEPTH (M) | | INST | P | T | C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | DEG | MIN | DEG | MIN | YR | MN | DY | YR | MN | DY | (DAY) | (MIN) | INST | WATER | TYPE | | | |
| 19780012 | WELLINGTON CH | 2.2 | 75 | 14.83 | 93 | 0.50 | 78 | 04 | 19 | 78 | 07 | 06 | 78 | 60 | 100 | 146 | RCM4 | | X | |
| 19780012 | WELLINGTON CH | 1 | 75 | 15.25 | 93 | 17.00 | 78 | 04 | 25 | 78 | 07 | 09 | 75 | 60 | 12 | 232 | RCM4 | | X | X |
| 19780013 | HAZEN ST | 1 | 77 | 3.26 | 110 | 21.16 | 79 | 01 | 06 | 79 | 04 | 29 | 114 | 30 | 10 | 225 | RCM4 | | X | X |
| 19780014 | DESBARATS ST | 2 | 76 | 42.21 | 105 | 57.25 | 79 | 01 | 01 | 79 | 04 | 06 | 51 | 30 | 10 | 150 | RCM4 | | X | X |
| 19790017 | W. LOUGHEED IS | 3 | 76 | 58.70 | 106 | 49.60 | 79 | 01 | 25 | 79 | 06 | 17 | 143 | 30 | 30 | 170 | RCM4 | | | |
| 19790017 | W. LOUGHEED IS | 3 | 76 | 58.70 | 106 | 49.60 | 79 | 02 | 01 | 79 | 06 | 17 | 136 | 30 | 05 | 170 | RCM4 | | | |
| 19790017 | MACLEAN ST | 1 | 77 | 35.10 | 103 | 42.10 | 79 | 02 | 17 | 79 | 06 | 20 | 124 | 60 | 05 | 263 | RCM4 | | | |
| 19790017 | PR GUSTAF ADOLF | 5 | 77 | 41.30 | 107 | 48.30 | 79 | 02 | 25 | 79 | 06 | 19 | 114 | 60 | 05 | 504 | RCM4 | | | |
| 19790017 | PR GUSTAF ADOLF | 5 | 77 | 41.30 | 107 | 48.30 | 79 | 02 | 25 | 79 | 03 | 03 | 09 | 60 | 30 | 504 | RCM4 | | | |
| 19790017 | MACLEAN ST | 1 | 77 | 35.10 | 103 | 42.10 | 79 | 02 | 26 | 79 | 06 | 20 | 114 | 60 | 30 | 263 | RCM4 | | | |
| 19790017 | HAZEN ST | 2 | 77 | 10.70 | 111 | 11.80 | 79 | 03 | 05 | 79 | 06 | 21 | 109 | 60 | 05 | 368 | RCM4 | | | |
| 19790017 | HAZEN ST | 2 | 77 | 10.70 | 111 | 11.80 | 79 | 03 | 06 | 79 | 06 | 21 | 108 | 60 | 30 | 368 | RCM4 | | | |
| 19790017 | EDINGBURGH SEA | 4 | 77 | 32.30 | 98 | 3.40 | 79 | 03 | 06 | 79 | 06 | 22 | 107 | 60 | 30 | 259 | RCM4 | | | |
| 19790017 | EDINGBURGH SEA | 4 | 77 | 32.30 | 98 | 3.40 | 79 | 03 | 06 | 79 | 06 | 22 | 107 | 60 | 05 | 259 | RCM4 | | | |
| 19790017 - start times are uncertain. | | | | | | | | | | | | | | | | | | | | |
| 19790018 | W. LOUGHEED IS | 3 | 77 | 12.30 | 106 | 52.88 | 79 | 01 | 13 | 79 | 05 | 05 | 113 | 30 | 10 | 240 | RCM4 | | X | X |
| 19790019 | DESBARATS ST | 12.1 | 76 | 55.00 | 103 | 49.00 | 79 | 04 | 03 | 79 | 05 | 07 | 00 | 10 | 05 | 195 | RCM4 | | X | X |
| 19790019 | DESBARATS ST | 12.2 | 76 | 55.00 | 103 | 49.00 | 79 | 04 | 03 | 79 | 05 | 01 | 28 | 10 | 50 | 195 | RCM4 | | X | X |
| 19790019 | DESBARATS ST | 14.1 | 76 | 47.00 | 103 | 52.00 | 79 | 04 | 03 | 79 | 04 | 27 | 10 | 10 | 05 | 325 | RCM4 | | X | X |
| 19790019 | DESBARATS ST | 22.1 | 77 | 5.00 | 106 | 10.00 | 79 | 04 | 03 | 79 | 04 | 03 | 00 | 10 | 06 | 199 | RCM4 | | X | X |
| 19790019 | DESBARATS ST | 22.2 | 77 | 5.00 | 106 | 10.00 | 79 | 04 | 03 | 79 | 04 | 08 | 02 | 10 | 50 | 199 | RCM4 | | X | X |
| 19790019 | DESBARATS ST | 24.1 | 76 | 52.00 | 107 | 52.00 | 79 | 04 | 03 | 79 | 05 | 02 | 29 | 10 | 05 | 439 | RCM4 | | X | X |
| 19790019 | DESBARATS ST | 14.2 | 76 | 47.00 | 103 | 52.00 | 79 | 04 | 04 | 79 | 05 | 03 | 30 | 10 | 50 | 325 | RCM4 | | X | X |
| 19790019 | DESBARATS ST | 24.2 | 76 | 52.00 | 107 | 52.00 | 79 | 04 | 04 | 79 | 04 | 12 | 00 | 10 | 50 | 439 | RCM4 | | X | X |
| 19790019 | MACLEAN ST | 32.1 | 77 | 50.00 | 100 | 46.00 | 79 | 04 | 08 | 79 | 04 | 30 | 22 | 10 | 05 | 210 | RCM4 | | X | X |
| 19790019 | MACLEAN ST | 32.2 | 77 | 50.00 | 100 | 46.00 | 79 | 04 | 08 | 79 | 05 | 08 | 29 | 10 | 50 | 210 | RCM4 | | X | X |
| 19790019 | MACLEAN ST | 35.1 | 77 | 37.00 | 102 | 55.00 | 79 | 04 | 08 | 79 | 04 | 25 | 00 | 10 | 05 | 350 | RCM4 | | X | X |
| 19790019 | MACLEAN ST | 35.2 | 77 | 37.00 | 102 | 55.00 | 79 | 04 | 08 | 79 | 04 | 25 | 17 | 10 | 50 | 350 | RCM4 | | X | X |
| 19790019 | MACLEAN ST | 37.1 | 77 | 30.00 | 103 | 58.00 | 79 | 04 | 08 | 79 | 05 | 07 | 00 | 10 | 06 | 290 | RCM4 | | X | X |
| 19790019 | MACLEAN ST | 37.2 | 77 | 30.00 | 103 | 58.00 | 79 | 04 | 08 | 79 | 05 | 07 | 12 | 10 | 50 | 290 | RCM4 | | X | X |
| 19790020 | W. LOUGHEED IS | 1.1 | 77 | 12.40 | 106 | 53.43 | 80 | 01 | 16 | 80 | 05 | 11 | 117 | 20 | 10 | 275 | RCM4 | | X | X |
| 19790020 | W. LOUGHEED IS | 1.2 | 77 | 12.40 | 106 | 53.43 | 80 | 02 | 28 | 80 | 05 | 12 | 14 | 30 | 150 | 320 | RCM4 | | X | X |
| 19790020 | W. LOUGHEED IS | 1.3 | 77 | 12.40 | 106 | 53.43 | 80 | 03 | 02 | 80 | 05 | 13 | 19 | 30 | 275 | 320 | RCM4 | | X | X |

TABLE 2 - CURRENT-METER DATA

| DATASET | AREA | STN | LATITUDE DEG | LATITUDE MIN | LONGITUDE DEG | LONGITUDE MIN | START YR | START MN | START DY | STOP YR | STOP MN | STOP DY | EFF_LEN (DAY) | DT (MIN) | DEPTH (M) INST | DEPTH (M) WATER | INST TYPE | P | T | C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19790022 | EDINGBURGH SEA | 2 | 77 | 37.18 | 100 | 22.40 | 80 | 01 | 21 | 80 | 04 | 11 | 35 | 20 | 10 | 236 | RCM4 |  | X | X |
| 19790022 | EDINGBURGH SEA | 3.1 | 77 | 36.50 | 99 | 31.13 | 80 | 01 | 21 | 80 | 02 | 23 | 34 | 20 | 10 | 262 | RCM4 |  | X | X |
| 19790022 | EDINGBURGH SEA | 3.2 | 77 | 36.50 | 99 | 31.13 | 80 | 02 | 23 | 80 | 04 | 11 | 00 | 20 | 10 | 262 | RCM4 |  | X | X |
| 19800013 | DUNDAS IS | 1 | 76 | 10.00 | 94 | 55.00 | 80 | 03 | 08 | 80 | 04 | 11 | 33 | 05 | 12 | 70 | RCM4 |  | X | X |
| 19800013 | DUNDAS IS | 2 | 76 | 11.00 | 94 | 57.60 | 80 | 03 | 08 | 80 | 04 | 11 | 33 | 10 | 12 | 37 | RCM4 |  | X | X |
| 19800013 | DUNDAS IS | 3 | 76 | 11.90 | 94 | 59.60 | 80 | 03 | 08 | 80 | 04 | 11 | 33 | 10 | 12 | 38 | RCM4 |  | X | X |
| 19800013 | DUNDAS IS | 4 | 76 | 10.80 | 95 | 33.40 | 80 | 03 | 08 | 80 | 04 | 12 | 33 | 10 | 12 | 142 | RCM4 |  | X | X |
| 19800013 | DUNDAS IS | 5 | 76 | 9.40 | 94 | 53.60 | 80 | 03 | 21 | 80 | 04 | 01 | 18 | 05 | 12 | 27 | RCM4 |  | X | X |
| 19800014 | W. LOUGHEED IS | 4.1 | 77 | 11.50 | 105 | 38.00 | 80 | 04 | 10 | 80 | 05 | 01 | 21 | 15 | 10 | 63 | RCM4 |  | X | X |
| 19800014 | W. LOUGHEED IS | 4.2 | 77 | 11.50 | 105 | 38.00 | 80 | 04 | 10 | 80 | 04 | 13 | 34 | 15 | 28 | 63 | RCM4 |  | X | X |
| 19800014 | W. LOUGHEED IS | 4.3 | 77 | 11.50 | 105 | 38.00 | 80 | 04 | 10 | 80 | 05 | 01 | 21 | 15 | 60 | 63 | RCM4 |  | X | X |
| 19800014 | W. LOUGHEED IS | 5.1 | 76 | 56.90 | 107 | 41.00 | 80 | 04 | 10 | 80 | 05 | 01 | 21 | 15 | 10 | 525 | RCM4 |  | X | X |
| 19800014 | W. LOUGHEED IS | 5.2 | 76 | 56.90 | 107 | 41.00 | 80 | 04 | 10 | 80 | 04 | 14 | 04 | 15 | 268 | 525 | RCM4 |  | X | X |
| 19800014 | W. LOUGHEED IS | 6.1 | 76 | 50.50 | 108 | 34.00 | 80 | 04 | 11 | 80 | 04 | 26 | 15 | 15 | 10 | 72 | RCM4 |  | X | X |
| 19800014 | W. LOUGHEED IS | 6.2 | 76 | 50.50 | 108 | 34.00 | 80 | 04 | 11 | 80 | 05 | 01 | 20 | 15 | 36 | 72 | RCM4 |  | X | X |
| 19800014 | W. LOUGHEED IS | 6.3 | 76 | 50.50 | 108 | 34.00 | 80 | 04 | 11 | 80 | 05 | 01 | 20 | 15 | 66 | 72 | RCM4 |  | X | X |
| 19820129A | NORWEGIAN BAY | 2 | 77 | 42.00 | 88 | 40.00 | 82 | 01 | 11 | 82 | 05 | 16 | 122 | 30 | 10 | NS | NS |  |  |  |
| 19820129A | NORWEGIAN BAY | 6 | 77 | 57.00 | 92 | 12.00 | 82 | 01 | 11 | 82 | 05 | 14 | 121 | 30 | 10 | NS | NS |  |  |  |
| 19820129B | NORWEGIAN BAY | 5 | 77 | 36.00 | 92 | 43.00 | 82 | NS | NS | 82 | NS | NS | NS | NS | NS | NS | RCM4 |  |  |  |
| 19820129B | NORWEGIAN BAY | 5 | 77 | 36.00 | 92 | 43.00 | 82 | NS | NS | 82 | NS | NS | NS | NS | NS | NS | RCM4 |  |  |  |
| 19820129B | NORWEGIAN BAY | 5 | 77 | 36.00 | 92 | 43.00 | 82 | NS | NS | 82 | NS | NS | NS | NS | NS | NS | RCM4 |  |  |  |
| 19820130 | MACLEAN ST | K08 | 78 | 7.68 | 104 | 33.57 | 82 | 01 | 20 | 82 | 05 | 09 | 109 | 30 | 10 | 554 | RCM4 |  |  |  |
| 19820130 | HAZEN ST | F24 | 77 | 33.28 | 109 | 9.93 | 82 | 01 | 23 | 82 | 05 | 06 | 103 | 30 | 10 | NS | RCM4 |  |  |  |
| 19830008 | AUSTIN CH | CM71 | 75 | 23.30 | 102 | 38.60 | 83 | 04 | 01 | 83 | 05 | 23 | NS | NS | 18 | NS | RCM4 |  | X | X |
| 19830008 | AUSTIN CH | CM71 | 75 | 23.30 | 102 | 38.60 | 83 | 04 | 01 | 84 | 04 | 30 | NS | NS | 73 | NS | RCM4 |  | X | X |
| 19830008 | AUSTIN CH | CM71 | 75 | 23.30 | 102 | 38.60 | 83 | 04 | 01 | 84 | 04 | 30 | NS | NS | 123 | NS | RCM4 |  | X | X |
| 19830008 | BYAM MARTIN CH | CM62 | 75 | 55.60 | 105 | 22.60 | 83 | 04 | 02 | 83 | 05 | 23 | NS | NS | 18 | NS | RCM4 |  | X | X |
| 19830008 | BYAM MARTIN CH | CM63 | 75 | 58.10 | 105 | 10.60 | 83 | 04 | 02 | 83 | 05 | 18 | NS | NS | 18 | NS | RCM4 |  | X | X |
| 19830008 | BYAM MARTIN CH | CM65 | 76 | 2.90 | 104 | 38.80 | 83 | 04 | 02 | 83 | 04 | 19 | NS | NS | 18 | NS | RCM4 |  | X | X |
| 19830008 | BYAM MARTIN CH | CM66 | 76 | 4.60 | 104 | 27.90 | 83 | 04 | 02 | 83 | 05 | 23 | NS | NS | 18 | NS | RCM4 |  | X | X |
| 19830076 | EDINGBURGH SEA | N | 77 | 49.00 | 99 | 5.00 | 83 | 01 | 25 | 83 | 03 | 25 | 59 | 30 | 10 | 76 | RCM4 |  |  |  |
| 19830076 | EDINGBURGH SEA | 2K15 | 77 | 45.00 | 99 | 6.00 | 83 | 01 | 27 | 83 | 03 | 27 | 59 | 30 | 10 | 118 | RCM4 |  |  |  |
| 19830076 | EDINGBURGH SEA | E | 77 | 45.00 | 98 | 28.00 | 83 | 01 | 27 | 83 | 03 | 25 | 57 | 30 | 10 | 90 | RCM4 |  |  |  |

## TABLE 2 - CURRENT-METER DATA

| DATASET | AREA | STN | LATITUDE DEG | LATITUDE MIN | LONGITUDE DEG | LONGITUDE MIN | START YR | START MN | START DY | STOP YR | STOP MN | STOP DY | EFF_LEN (DAY) | DT (MIN) | DEPTH (M) INST | DEPTH (M) WATER | INST TYPE | P | T | C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19840049A | WELLINGTON CH | WC01 | 75 | 13.30 | 92 | 31.70 | 84 | 04 | 07 | 84 | 06 | 07 | NS | NS | 18 | NS | RCM4 | | | |
| 19840049A | WELLINGTON CH | WC02 | 75 | 14.10 | 92 | 33.80 | 84 | 04 | 07 | 84 | 04 | 23 | NS | NS | 18 | NS | RCM4 | | | |
| 19840049A | WELLINGTON CH | WC03 | 75 | 14.10 | 92 | 35.40 | 84 | 04 | 08 | 84 | 06 | 07 | NS | NS | 18 | NS | RCM4 | | | |
| 19840049A | WELLINGTON CH | WC04 | 75 | 14.10 | 92 | 40.00 | 84 | 04 | 08 | 84 | 06 | 07 | NS | NS | 18 | NS | RCM4 | | | |
| 19840049A | WELLINGTON CH | WC05 | 75 | 14.40 | 92 | 44.40 | 84 | 04 | 08 | 84 | 06 | 07 | NS | NS | 18 | NS | RCM4 | | | |
| 19840049A | PENNY ST | PS01 | 76 | 38.70 | 96 | 54.60 | 84 | 04 | 16 | 85 | 04 | 16 | NS | 60 | 43 | NS | RCM4 | | X | X |
| 19840049A | WELLINGTON CH | WC07 | 75 | 15.20 | 93 | 22.80 | 84 | 04 | 19 | 84 | 06 | 09 | NS | NS | 18 | NS | RCM4 | | | |
| 19840049A | WELLINGTON CH | WC08 | 74 | 47.70 | 92 | 9.20 | 84 | 04 | 19 | 84 | 06 | 09 | NS | NS | 18 | NS | RCM4 | | | |
| 19840049A | WELLINGTON CH | WC10 | 74 | 47.50 | 92 | 21.60 | 84 | 04 | 19 | 84 | 05 | 19 | NS | NS | 18 | NS | RCM4 | | | |
| 19840049A | WELLINGTON CH | WC11 | 74 | 47.80 | 92 | 27.80 | 84 | 04 | 19 | 84 | 06 | 01 | NS | NS | 18 | NS | RCM4 | | | |
| 19840049A | WELLINGTON CH | WC06 | 75 | 14.40 | 92 | 59.60 | 84 | 04 | 20 | 84 | 06 | 09 | NS | NS | 18 | NS | RCM4 | | | |
| 19840049A | PENNY ST | PS01 | 76 | 38.70 | 96 | 54.60 | 84 | 04 | 23 | 84 | 09 | 10 | NS | 60 | 131 | NS | RCM4 | | X | X |
| 19840049A | PENNY ST | PS02 | 76 | 36.20 | 97 | 25.20 | 84 | 04 | 23 | 85 | 04 | 12 | NS | 60 | 49 | NS | RCM4 | | X | X |
| 19840049A | PENNY ST | PS02 | 76 | 36.20 | 97 | 25.20 | 84 | 04 | 23 | 85 | 04 | 18 | NS | 60 | 138 | NS | RCM4 | | X | X |
| 19840049A | WELLINGTON CH | WC12 | 74 | 47.70 | 92 | 48.10 | 84 | 05 | 01 | 84 | 06 | 09 | NS | NS | 18 | NS | CM12 | | | |
| 19840049A | WELLINGTON CH | WC13 | 74 | 47.70 | 93 | 17.80 | 84 | 05 | 01 | 84 | 06 | 09 | NS | NS | 18 | NS | CM12 | | | |
| 19840049B | BALLANTYNE ST | BP1.1 | 77 | 43.20 | 116 | 0.10 | 84 | 04 | 07 | 85 | 04 | 29 | NS | NS | 35 | NS | RCM4 | | X | X |
| 19840049B | BALLANTYNE ST | BP1.1 | 77 | 43.20 | 116 | 0.10 | 84 | 04 | 07 | 85 | 04 | 29 | NS | NS | 83 | NS | RCM4 | | X | X |
| | | | | | | | | | | | | | | | | | | | | |
| 19840059 | NORWEGIAN BAY | HE | 77 | 0.30 | 90 | 0.90 | 84 | 01 | 17 | 84 | 04 | 19 | 92 | 30 | 10 | NS | RCM4 | | | |
| 19840059 | NORWEGIAN BAY | BS | 77 | 7.00 | 91 | 24.00 | 84 | 02 | 23 | 84 | 04 | 18 | 54 | 15 | 01 | 79 | RCM4 | | | |

## 11.3 WATER-LEVEL DATA

The listings contain the following information:

| | |
|---|---|
| AREA | General area of station. |
| STN | Station number; generally as assigned by the originating agency. |
| LAT, LONG | In degrees and minutes. |
| START/STOP | Year, month and day instrument recorded over. |
| EFF LEN | Effective record length. |
| DT (MN) | Sampling rate in minutes. A zero value implies continuous sampling (e.g. chart recorder). |
| DEPTHS-INSTR/WATER | Instrument and water depth, in metres. |
| INSTR TYPE | AAND - Aanderaa<br>AM12 - Applied Microsystems Ltd. 12A<br>AMS - Applied Microsystems Ltd.<br>BASS - Bass Engineering optical lever<br>FSRG - Frozen Sea Research Group (IOS)<br>FOXB - Foxboro<br>HWK - HWK float<br>LEGE - Lege<br>LEOP - Leopold Stevens<br>LEWI - Lewis Guage (IOS)<br>MECH - shore-based gauge, temporary or permanent<br>NS - Not specified<br>OTT - Ott gauge, either float or poteniometric<br>OTTB - Ottboro<br>RICH - Richard<br>SDAT - SeaData bottom wave and/or water level sensor<br>STAF - Tide staff<br>STEV - Stevens<br>TG2A - Aanderaa TG2A<br>TG3A - Aanderaa TG3A<br>TG4A - Aanderaa TG4A<br>TG12 - Aanderaa TG12A<br>UBC - Univ. of British Columbia gauge<br>WLR4 - Aanderaa WLR4<br>WLR5 - Aanderaa WLR5<br>750A - Applied Microsystems Ltd. 750A |
| ADDIT SENSOR | Parameters measured qualified by:<br>X - measurements of this parameter were made |

'NS' entries indicate unavailable or inapplicable data.

In cases where water-level data have been collected intermittently or continuously over more than one year, one I.D. number has been used to represent the entire data set.

TABLE 2 - WATER-LEVEL DATA

| DATASET | AREA | STN | LATITUDE | | LONGITUDE | | START | | | STOP | | | EFF_LEN (DAY) | DT (MIN) | DEPTH (M) | | INST TYPE | P | T | C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | DEG | MIN | DEG | MIN | YR | MN | DY | YR | MN | DY | | | INST | WATER | | | | |
| 18190001 | BYAM MARTIN IS | | 75 | 10.00 | 103 | 34.00 | 19 | 08 | 28 | 19 | 08 | 28 | 01 | NS | NS | NS | MECH | | | |
| 18520001 | BELCHER CH | | 77 | 14.00 | 95 | 8.00 | 52 | 08 | 28 | 52 | 08 | 31 | 04 | NS | NS | NS | MECH | | | |
| 18530001 | PENNY ST | | 76 | 52.00 | 97 | 0.00 | 53 | 05 | 27 | 53 | 06 | 24 | 29 | NS | NS | NS | MECH | | | |
| 19490001 | ISAACHSEN | 1 | 78 | 47.00 | 103 | 32.00 | 49 | 08 | 01 | 51 | 08 | 31 | NS | NS | NS | NS | NS | | | |
| 19510007 | MOULD BAY | 1 | 76 | 17.00 | 119 | 28.90 | 51 | 07 | 01 | 52 | 08 | 31 | NS | NS | NS | NS | NS | | | |
| 19520003 | SLIDRE FD | | 79 | 59.00 | 85 | 57.00 | 52 | 08 | 17 | 52 | 08 | 18 | 01 | 30 | 00 | NS | STAF | | | |
| 19540010 | ISAACHSEN | 1 | 78 | 47.00 | 103 | 32.00 | 54 | 07 | 01 | 54 | 08 | 31 | NS | NS | NS | NS | NS | | | |
| 19540010 | EUREKA | 2 | 79 | 59.00 | 85 | 57.00 | 54 | 07 | 01 | 58 | 08 | 31 | NS | NS | NS | NS | NS | | | |
| 19590004 | ISAACHSEN | 1 | 78 | 47.00 | 103 | 32.00 | 59 | 03 | 01 | 59 | 04 | 30 | NS | NS | NS | NS | NS | | | |
| 19620013 | QUEENS CH | 1 | 76 | 5.00 | 97 | 44.00 | 62 | 07 | 01 | 62 | 07 | 31 | NS | NS | NS | NS | NS | | | |
| 19630010 | TANQUARY FD | | 81 | 25.00 | 76 | 55.00 | 63 | 06 | 27 | 63 | 07 | 25 | 14 | NS | 00 | 01 | STAF | | | |
| 19640008 | TANQUARY FD | 1 | 81 | 24.00 | 76 | 55.00 | 64 | 07 | 01 | 64 | 08 | 23 | NS | 00 | NS | NS | FOX | | | |
| 19680008 | NANSEN SD | 1 | 80 | 19.00 | 86 | 20.00 | 68 | 05 | 01 | 68 | 06 | 30 | NS | NS | NS | NS | NS | | | |
| 19680008 | NANSEN SD | 2 | 81 | 31.00 | 92 | 30.00 | 68 | 05 | 01 | 68 | 06 | 30 | NS | NS | NS | NS | NS | | | |
| 19680008 | TANQUARY FD | 3 | 81 | 24.00 | 76 | 55.00 | 68 | 05 | 01 | 68 | 08 | 31 | NS | NS | NS | NS | NS | | | |
| 19690015 | GREELY FD | 1 | 80 | 36.00 | 79 | 35.00 | 69 | 08 | 01 | 69 | 09 | 30 | NS | 00 | NS | NS | OTTB | | | |
| 19690016 | BYAM CH | 1 | 75 | 22.00 | 105 | 24.00 | 69 | 08 | 01 | 69 | 08 | 31 | NS | NS | NS | NS | NS | | | |

## TABLE 2 - WATER-LEVEL DATA

| DATASET | AREA | STN | LATITUDE | | LONGITUDE | | START | | | STOP | | | EFF_LEN | DT | DEPTH (M) | | INST | P | T | C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | DEG | MIN | DEG | MIN | YR | MN | DY | YR | MN | DY | (DAY) | (MIN) | INST | WATER | TYPE | | | |
| 19700017 | GREELY FD | 1 | 80 | 35.00 | 79 | 36.00 | 70 | 03 | 31 | 70 | 04 | 07 | NS | NS | NS | 00 | OTTB | | | |
| 19700018 | GREELY FD | 1 | 80 | 35.00 | 79 | 36.00 | 70 | 08 | 15 | 70 | 10 | 04 | NS | NS | NS | 00 | OTTB | | | |
| 19720023 | GREELY FD | 1 | 80 | 36.00 | 79 | 33.00 | 72 | 08 | 22 | 75 | 08 | 16 | NS | NS | NS | 10 | FSRG | | | |
| 19730007 | NORWEGIAN BAY | 1 | 78 | 20.00 | 90 | 20.00 | 73 | 04 | 01 | 73 | 05 | 31 | NS | NS | NS | NS | NS | | | |
| 19730007 | BYAM CH | 2 | 75 | 8.00 | 105 | 50.00 | 73 | 07 | 01 | 73 | 08 | 31 | NS | NS | NS | NS | NS | | | |
| 19730007 | QUEENS CH | 3 | 75 | 21.00 | 96 | 54.00 | 73 | 08 | 01 | 73 | 09 | 30 | NS | NS | NS | NS | NS | | | |
| 19730007 | BYAM CH | 1 | 75 | 1.00 | 106 | 22.00 | 73 | 08 | 01 | 73 | 08 | 31 | NS | 60 | NS | NS | NS | | | |
| 19730013 | GREELY FD | 2 | 80 | 35.80 | 79 | 27.50 | 73 | 06 | 30 | 73 | 08 | 22 | NS | NS | NS | NS | FSRG | | | |
| 19730015 | D'IBERVILLE FD | | 80 | 36.00 | 79 | 33.00 | 73 | 06 | 01 | NS | NS | NS | NS | NS | NS | NS | FSRG | X | | |
| 19740025 | GREELY FD | 2 | 80 | 35.80 | 79 | 27.50 | 74 | 08 | 18 | 75 | 06 | 16 | NS | NS | NS | 10 | FSRG | | | |
| 19750017 | BYAM MARTIN CH | 11 | 76 | 24.67 | 107 | 48.78 | 75 | 01 | 03 | 75 | 04 | 22 | 109 | NS | NS | 132 | NS | | | |
| 19750020 | HECLA & GRIPER | 1 | 76 | 21.92 | 110 | 53.08 | 75 | 11 | 23 | 76 | 02 | 29 | 98 | NS | NS | NS | STEV | | | |
| 19750021 | MACLEAN ST | 3 | 78 | 5.37 | 101 | 6.84 | 75 | 12 | 13 | 76 | 04 | 19 | 128 | NS | NS | 60 | STEV | | | |
| 19750039 | D'IBERVILLE FD | | 80 | 36.00 | 79 | 33.00 | 75 | 03 | 25 | 75 | 08 | 16 | NS | 30 | 10 | 10 | FSRG | X | | |
| 19750039 | D'IBERVILLE FD | | 80 | 35.80 | 79 | 27.50 | 75 | 03 | 25 | 75 | 06 | 16 | NS | 30 | 10 | 10 | FSRG | X | | |
| 19750040 | BYAM CH | 1 | 75 | 22.00 | 105 | 24.00 | 75 | 08 | 01 | 75 | 08 | 31 | NS | NS | NS | NS | NS | | | |
| 19760014 | HECLA & GRIPER | 2 | 76 | 24.90 | 111 | 11.22 | 76 | 01 | 28 | 76 | 04 | 16 | 76 | NS | NS | NS | STEV | | | |
| 19760016 | PENNY ST | 101 | 76 | 45.00 | 96 | 54.00 | 76 | 03 | 16 | 76 | 04 | 22 | 37 | NS | NS | 60 | AAND | | | |

## TABLE 2 - WATER-LEVEL DATA

| DATASET | AREA | STN | LATITUDE DEG | LATITUDE MIN | LONGITUDE DEG | LONGITUDE MIN | START YR | START MN | START DY | STOP YR | STOP MN | STOP DY | EFF_LEN (DAY) | DT (MIN) | DEPTH (M) INST | DEPTH (M) WATER | INST TYPE | P | T | C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19760018 | GREELY FD | 2 | 80 | 35.80 | 79 | 27.50 | 76 | 03 | 13 | NS | NS | NS | NS | NS | NS | NS | FSRG | | | |
| 19760018 | GREELY FD | 1 | 80 | 36.00 | 79 | 33.00 | 76 | 03 | 13 | NS | NS | NS | NS | NS | NS | 10 | FSRG | | | |
| 19760019 | E. SABINE PEN | 1 | 76 | 29.90 | 107 | 11.90 | 76 | 12 | 21 | 77 | 03 | 02 | 71 | NS | NS | NS | NS | | | |
| 19770019 | GREELY FD | 1 | 80 | 36.00 | 79 | 32.00 | 77 | 03 | 05 | 77 | 03 | 24 | NS | NS | NS | 32 | AAND | | | |
| 19770022 | HECLA & GRIPER | | 76 | 17.10 | 111 | 20.90 | 77 | 02 | 23 | 77 | 04 | 26 | 35 | NS | NS | NS | NS | | | |
| 19770024 | HECLA & GRIPER | 1 | 76 | 23.70 | 113 | 11.40 | 77 | 12 | 19 | 78 | 04 | 17 | 119 | NS | NS | 232 | STEV | | | |
| 19770025 | HECLA & GRIPER | 1 | 76 | 43.75 | 109 | 46.37 | 77 | 11 | 05 | 78 | 04 | 12 | 158 | NS | NS | 165 | STEV | | | |
| 19770026 | CROZIER ST | 101 | 75 | 30.80 | 97 | 12.80 | 77 | 03 | 25 | 77 | 06 | 15 | 84 | NS | NS | 28 | WLR4 | | | |
| 19780013 | HAZEN ST | 1 | 77 | 3.26 | 110 | 21.16 | 78 | 12 | 03 | 79 | 05 | 03 | 151 | NS | NS | 225 | STEV | | | |
| 19780014 | DESBARATS ST | 2 | 76 | 42.21 | 105 | 57.25 | 78 | 12 | 19 | 79 | 03 | 20 | 91 | NS | NS | 150 | STEV | | | |
| 19780016 | E. SABINE PEN | 3 | 76 | 25.40 | 108 | 29.80 | 78 | 01 | 21 | 78 | 04 | 29 | 99 | NS | NS | NS | NS | | | |
| 19790018 | W. LOUGHEED IS | 3.1 | 77 | 12.30 | 106 | 52.88 | 79 | 01 | 09 | 79 | 05 | 09 | 121 | NS | NS | 240 | STEV | | | |
| 19790018 | W. LOUGHEED IS | 3.2 | 77 | 12.30 | 106 | 52.88 | 79 | 01 | 11 | 79 | 03 | 04 | 53 | NS | NS | 240 | WLR5 | | | |
| 19790020 | W. LOUGHEED IS | 1 | 77 | 12.40 | 106 | 53.43 | 79 | 11 | 11 | 80 | 05 | 10 | 181 | NS | NS | 275 | STEV | | | |
| 19790021 | PENNY ST | 106 | 76 | 29.00 | 97 | 5.00 | 79 | 03 | 01 | 79 | 04 | 13 | 44 | 15 | NS | 06 | WLR5 | | | |
| 19790021 | HAZEN ST | 101 | 77 | 29.00 | 110 | 14.00 | 79 | 03 | 02 | 79 | 04 | 23 | 53 | 15 | NS | 08 | WLR5 | | | |
| 19790021 | EDINGBURGH SEA | 104 | 76 | 47.00 | 101 | 14.00 | 79 | 03 | 03 | 79 | 04 | 14 | 43 | 15 | NS | 45 | WLR5 | | | |
| 19790021 | MACLEAN ST | 103 | 77 | 27.00 | 104 | 53.00 | 79 | 03 | 03 | 79 | 04 | 23 | 52 | 15 | NS | 15 | WLR5 | | | |
| 19790021 | WELLINGTON CH | 107 | 75 | 8.00 | 92 | 12.00 | 79 | 03 | 04 | 79 | 04 | 20 | 47 | 15 | NS | 19 | WLR5 | | | |
| 19790021 | HAZEN ST | 102 | 76 | 54.00 | 109 | 0.00 | 79 | 03 | 06 | 79 | 04 | 23 | 49 | 15 | NS | NS | TG12 | | | |
| 19790021 | BELCHER CH | 105 | 77 | 2.00 | 96 | 37.00 | 79 | 03 | 08 | 79 | 04 | 20 | 44 | 15 | NS | 20 | WLR5 | | | |

TABLE 2 - WATER-LEVEL DATA

| DATASET | AREA | STN | LATITUDE | | LONGITUDE | | START | | | STOP | | | EFF_LEN | DT | DEPTH (M) | | INST | P | T | C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | DEG | MIN | DEG | MIN | YR | MN | DY | YR | MN | DY | (DAY) | (MIN) | INST | WATER | TYPE | | | |
| 19790022 | EDINGBURGH SEA | 2.1 | 77 | 37.18 | 100 | 22.40 | 79 | 11 | 28 | 80 | 04 | 27 | 143 | NS | NS | 236 | STEV | | | |
| 19790022 | EDINGBURGH SEA | 3.1 | 77 | 36.50 | 99 | 31.13 | 79 | 12 | 10 | 80 | 04 | 19 | 130 | NS | NS | 262 | STEV | | | |
| 19790022 | EDINGBURGH SEA | 3.2 | 77 | 36.50 | 99 | 31.13 | 80 | 04 | 05 | 80 | 04 | 19 | 15 | NS | NS | 262 | STEV | | | |
| 19790022 | EDINGBURGH SEA | 3.3 | 77 | 36.50 | 99 | 31.13 | 80 | NS | NS | 80 | NS | NS | 00 | NS | NS | 262 | AAND | | | |
| 19800014 | W. LOUGHEED IS | 4 | 77 | 11.50 | 105 | 38.00 | 80 | 04 | 10 | 80 | 05 | 01 | 21 | NS | NS | 63 | WL5A | | | |
| 19800015 | WELLINGTON CH | 101 | 75 | 39.00 | 94 | 34.00 | 80 | 03 | 24 | 80 | 04 | 26 | 34 | NS | NS | NS | WLR5 | | | |
| 19810019 | LANDS END | 66584 | 76 | 54.00 | 89 | 25.00 | 81 | 03 | 04 | 81 | 04 | 19 | 46 | 15 | 10 | 10 | WLR5 | X | | |
| 19810019 | AXEL HEIBERG IS | 66605 | 78 | 8.00 | 88 | 53.00 | 81 | 03 | 04 | 81 | 04 | 19 | 45 | 15 | 10 | 10 | TG3A | X | | |
| 19810019 | AXEL HEIBERG IS | 66598 | 78 | 13.00 | 91 | 50.00 | 81 | 03 | 04 | 81 | 04 | 19 | 45 | 15 | 27 | 27 | TG3A | X | | |
| 19810019 | BELCHER CH | 66588 | 76 | 57.00 | 94 | 10.00 | 81 | 03 | 05 | 81 | 04 | 20 | 45 | 15 | 41 | 41 | WLR5 | X | | |
| 19810116 | NORWEGIAN BAY | 66595 | 77 | 42.00 | 88 | 57.00 | 81 | 01 | 18 | 81 | 06 | 12 | 145 | 30 | 87 | 87 | TG3A | X | | |
| 19810117 | MACLEAN ST | B80 | 77 | 49.22 | 104 | 57.30 | 81 | 01 | 01 | 81 | 04 | 01 | 91 | NS | NS | NS | NS | | | |
| 19810117 | W. LOUGHEED IS | B66 | 77 | 25.00 | 106 | 23.60 | 81 | 01 | 15 | 81 | 04 | 23 | 98 | NS | NS | NS | NS | | | |
| 19810117 | HAZEN ST | F24 | 77 | 33.00 | 109 | 9.00 | 81 | 12 | 03 | 82 | 04 | 21 | 139 | NS | NS | NS | STEV | | | |
| 19810117 | MACLEAN ST | K08 | 78 | 7.68 | 104 | 33.57 | 81 | 12 | 16 | 82 | 05 | 01 | 136 | NS | NS | NS | STEV | | | |
| 19810117 | MACLEAN ST | A26 | 77 | 15.00 | 106 | 38.00 | 82 | NS | NS | 82 | NS | NS | NS | NS | NS | NS | NS | | | |
| 19810117 | MACLEAN ST | C42 | 77 | 21.00 | 106 | 17.00 | 82 | NS | NS | 82 | NS | NS | NS | NS | NS | NS | NS | | | |
| 19820131 | MOULD BAY | 6955 | 76 | 13.80 | 119 | 34.00 | 82 | 06 | 06 | 83 | 06 | 01 | NS | 60 | 14.2 | 14.2 | TG3A | X | X | |
| 19820131 | AUDHILD BAY | 6702 | 81 | 32.00 | 91 | 10.02 | 82 | 06 | 09 | 83 | 06 | 05 | NS | 60 | 16.5 | 16.5 | TG3A | | | |
| 19830008 | BYAM MARTIN | TG90 | 76 | 5.50 | 104 | 25.50 | 83 | 04 | 05 | 83 | 05 | NS | NS | NS | 110 | NS | WLR5 | X | | |
| 19830076 | EDINGBURGH SEA | | 77 | 44.60 | 99 | 6.00 | 82 | 11 | 27 | 83 | 04 | 09 | 133 | NS | 00 | 118 | STEV | | | |
| 19830076 | EDINGBURGH SEA | | 77 | 25.10 | 99 | 35.93 | 83 | NS | NS | 83 | NS | NS | NS | NS | NS | NS | NS | | | |
| 19830076 | W. LOUGHEED IS | | 77 | 28.60 | 106 | 21.15 | 83 | NS | NS | 83 | NS | NS | NS | NS | NS | NS | NS | | | |
| 19830077 | MOULD BAY | 6955 | 76 | 17.00 | 119 | 28.00 | 83 | 06 | 01 | 84 | 05 | 29 | NS | 60 | 14.2 | 14.2 | TG3A | X | X | |
| 19830077 | AUDHILD BAY | 6702 | 81 | 32.00 | 91 | 10.02 | 83 | 06 | 05 | 84 | 05 | 27 | NS | 60 | 16.5 | 16.5 | TG3A | X | X | |
| 19830077 | ISACHSEN | 6910 | 78 | 47.00 | 103 | 32.00 | 83 | 06 | 06 | 84 | 06 | 01 | NS | 60 | 12.8 | 12.8 | TG3A | X | X | |

TABLE 2 - WATER-LEVEL DATA

| DATASET | AREA | STN | LATITUDE |  | LONGITUDE |  | START |  |  | STOP |  |  | EFF_LEN | DT | DEPTH (M) |  | INST | P | T | C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  | DEG | MIN | DEG | MIN | YR | MN | DY | YR | MN | DY | (DAY) | (MIN) | INST | WATER | TYPE |  |  |  |
| 19840049A | PENNY ST | PS01 | 76 | 39.00 | 96 | 55.00 | 84 | 04 | NS | 85 | 04 | NS | NS | NS | 186 | 186 | WLR5 | X |  |  |
| 19840049A | BYAM MARTIN CH | WEST | 75 | 54.90 | 105 | 36.20 | 84 | 04 | NS | 84 | 06 | NS | NS | NS | 27 | 27 | TG12 | X |  |  |
| 19840049A | WELLINGTON CH | SB | 75 | 12.60 | 93 | 29.60 | 84 | 04 | NS | 84 | 06 | NS | NS | NS | 14 | 14 | TG12 | X |  |  |
| 19840059 | NORWEGIAN BAY | 068 | 77 | 8.00 | 91 | 23.90 | 83 | 12 | 17 | 84 | 05 | 12 | 146 | NS | 00 | 79 | STEV |  |  |  |
| 19840059 | NORWEGIAN BAY |  | 77 | 7.60 | 91 | 23.40 | 84 | 01 | 16 | 84 | 04 | 23 | 97 | 30 | 95 | 95 | TG3A | X | X |  |
| 19840060 | AUDHILD BAY | 6702 | 81 | 32.50 | 91 | 10.00 | 84 | 05 | 28 | 85 | 05 | 21 | NS | 60 | 16.5 | 16.5 | TG12 | X | X |  |
| 19840060 | MOULD BAY | 6955 | 76 | 13.80 | 119 | 34.00 | 84 | 05 | 30 | 85 | 05 | 17 | NS | 60 | 14.2 | 14.2 | TG12 | X | X |  |
| 19840060 | ISACHSEN | 6910 | 78 | 47.00 | 103 | 30.00 | 84 | 06 | 01 | 84 | 07 | 02 | NS | 60 | 12.8 | 12.8 | TG3A | X | X |  |
| 19840060 | ISACHSEN | 6910 | 78 | 47.00 | 103 | 30.00 | 84 | 06 | 01 | 85 | 05 | 21 | NS | 60 | 12.8 | 12.8 | TG12 | X | X |  |
| 19850042 | MOULD BAY | 6955 | 76 | 13.80 | 119 | 34.00 | 85 | 05 | 17 | 86 | 05 | 20 | NS | 30 | 14.2 | 14.2 | TG3A | X | X |  |
| 19850042 | MOULD BAY | 6955 | 76 | 13.80 | 119 | 34.00 | 85 | 05 | 17 | 86 | 04 | 14 | NS | 30 | 14.2 | 14.2 | TG12 | X | X |  |
| 19850042 | AUDHILD BAY | 6702 | 81 | 32.50 | 91 | 10.00 | 85 | 05 | 20 | 86 | 05 | 18 | NS | 30 | 16.5 | 16.5 | WLR5 | X | X |  |
| 19850042 | AUDHILD BAY | 6702 | 81 | 32.50 | 91 | 10.00 | 85 | 05 | 20 | 86 | 05 | 18 | NS | 60 | 16.5 | 16.5 | TG12 | X | X |  |
| 19850042 | ISACHSEN | 6910 | 78 | 47.00 | 103 | 30.00 | 85 | 05 | 21 | 86 | 05 | 19 | NS | 30 | 12.8 | 12.8 | TG12 | X | X |  |
| 19850042 | ISACHSEN | 6910 | 78 | 47.00 | 103 | 30.00 | 85 | 05 | 21 | 86 | 05 | 19 | NS | 60 | 12.8 | 12.8 | TG3A | X | X |  |
| 19850043 | MASSEY IS | 66789 | 76 | 4.00 | 102 | 17.00 | 85 | 03 | 15 | 85 | 04 | 24 | 40 | 15 | 13 | 13 | WLR5 | X |  |  |
| 19850043 | ALEXANDER IS | 66791 | 75 | 45.00 | 103 | 17.00 | 85 | 03 | 15 | 85 | 04 | 24 | 40 | 15 | 06 | 06 | WLR5 | X |  |  |
| 19850043 | CAMERON IS | 66788 | 76 | 30.00 | 104 | 35.00 | 85 | 03 | 15 | 85 | 04 | 24 | 40 | 15 | 23 | 23 | WLR5 | X |  |  |
| 19850043 | CAMERON IS | 66786 | 76 | 25.00 | 103 | 0.00 | 85 | 03 | 15 | 85 | 04 | 24 | 40 | 15 | 15 | 15 | WLR5 | X |  |  |
| 19850043 | CAMERON IS | 66787 | 76 | 19.00 | 104 | 2.00 | 85 | 03 | 15 | 85 | 04 | 24 | 40 | 15 | 06 | 06 | WLR5 | X |  |  |
| 19860016 | NORWEGIAN BAY | L71 | 77 | 10.70 | 91 | 27.50 | 85 | 12 | 17 | 86 | 04 | 05 | 109 | NS | NS | NS | NS |  |  |  |
| 19870002 | NORWEGIAN BAY | 6588 | 76 | 54.00 | 94 | 27.00 | 87 | 09 | 03 | 87 | 09 | 18 | NS | NS | NS | NS | OTTB | X |  |  |

# APPENDIX 1

## COMMENTS ON METHODS AND DATA QUALITY, BY DATA-SET NUMBER

### 1819-0001

These water level data, probably obtained with a staff, provide only the time of high water for the single day of observation (Harris, 1911). Other observations included water temperature, depth, and current, although apparently not within the area of this data inventory.

### 1948-0001

Nansen bottles and reversing thermometers were used as well as BTs at one station in the vicinity of Eureka weather station. Bottles samples were collected at 0, 25, 50, 75, 100, 150, 200, 300 and 400 feet. Tables of temperature, salinity and sigma-t are included at the end of Metcalf's (1949) report, but no accuracies are provided.

The station location (79°44'N,85°25W) provided by NODC is erroneous, being located 2 nautical miles (3 km) inland from the nearest coastline. Based on the station location map of the data report, the coordinates have been corrected to 79°44'N,86°44'W.

### 1949-0001

After the second world war, a network of water level stations was gradually established at the sites of permanent weather stations. Very little documentation as to methods and accuracies is available. It is thought that these stations used mechanical shore-mounted float-type gauges.

The data are available from the Marine Environmental Data Services Branch (MEDS) under the identification number listed in the "Source or Reference" column of Table 1. The start and stop dates listed by MEDS invariably occur on the first day of the month and the last day of the month, leading us to suspect that the data is filed by months rather than dates. Thus, data are not necessarily available for each day of the first and last months. In addition, no indication is given of data gaps due to equipment failures which are associated with the use of mechanical water level gauges in ice-infested waters. Depths of instrument and water were often not available.

### 1951-0007

See comments for 1949-0001.

### 1952-0003

Bottle casts for temperature, salinity and dissolved oxygen were carried out. Water transparency was determined by means of a Secchi disc and bottom (Phleger) cores were made when sea and bottom conditions permitted. Vertical net tows were collected at about one station in three to an average depth of 20 m. Visual estimates of currents and short term (28 hour) tidal height measurements and reported for Slidre Fiord near the Eureka weather station.

No estimates of data precision or accuracy are available in the data report (U.S. Naval Hydrographic Office, 1954).

The position (79°01'N,85°28'W) given for station 44 is erroneous as it is located on Stor Island about 4 nautical miles (6 km) from the nearest coastline. Based on the map of station locations of the data report, the position has been changed to 79°01'N,84°55'W.

**1954-0001**

The temperature and salinity data collected were reported by Bailey (1955). These data were used to describe the oceanographic features of the Canadian Arctic Waterways in Bailey (1957). No accuracies are given nor are any known errors mentioned.

**1954-0010**

These water level data were collected near the Eureka and Isachsen weather stations. See comments for data set 1949-0001.

**1957-0003**

No data report is available for these data but the results are described in considerable detail by Collin (1962).

No information is available as to methods, accuracies or errors in the data.

The location of station 124 is in error. The station position is located about 4 nautical miles (7.4 km) inshore on Bathurst Island. The latitude has been altered from 76°11.0'N to 76°41.0'N to provide agreement with the station location map of Collin (1962).

**1959-0004**

These water level data were collected near the Isachsen weather station. See comments for data set 1949-0001.

**1960-0005**

Bottle casts used Knudsen type reversing bottles and Negretti and Zambra protected thermometers (one per bottle). Salinity samples were stored in glass bottles having rubber washers and were later analyzed at the Atlantic Oceanographic Group lab using a chemical titration technique (CODC, 1964). Plankton samples were forwarded to the Arctic Unit (Grainger, 1963).

**1960-0007**

Temperature and salinity profile data were obtained by means of bottle casts from the sea-ice. Operations took place in a heated tent to avoid freezing of the salinity and oxygen samples. A light aircraft provided transportation between oceanographic stations, located on frozen leads and the base camp at Isachsen.

Collin (1961) also mentions that four oceanographic stations were occupied in 1959 in addition to those described as part of 1960-0007. However, these data are not on file with MEDS nor was any data report or other information located.

**1961-0003**

The data report (CODC, 1966a) lists the following data as suspect:

| Stn. | Depth | Suspect Data |
|---|---|---|
| 4 | 0 | Temperature |
| 4 | 10 | Temperature |
| 28 | 49 | Temperature |
| 28 | 98 | Temperature |
| 38 | 10 | Temperature |
| 40 | 30 | Temperature |
| 40 | 98 | Temperature |

Barber and Huyer (1971), in the course of using these data to prepare an atlas of the waters of the Canadian Arctic Archipelago, indicated that the salinities were determined with conductivity bridge salinometers after completion of the field work.

**1961-0004**

No suspect or erroneous data were listed in the data report (CODC, 1966).

Barber and Huyer (1971), in the course of using these data to prepare an atlas of the waters of the Canadian Arctic Archipelago, indicated that the salinities were determined with conductivity bridge salinometers after completion of the field work.

**1961-0005**

No report of any kind could be found, however the data are available from MEDS.

**1961-0009**

Oceanographic observations were collected from the ice. Serial observations were collected at 0, 5, 10, 20, 30, 50, 75, 100, 125, 150, 175, 200, 250, 300 and 450 m using Fjarlie sampling bottles. One protected reversing thermometer was used in each bottle with an unprotected thermometer used on the two deepest bottles at each cast.

Current meter observations were obtained at 30.5 m (100 feet) over a 24-hour period using an electromagnetic induction current meter designed and built by the Pacific Naval Laboratory.

**1962-0005**

The main purpose of the study was to carry out a biological collecting program. Temperature and salinity measurements were made from a small, outboard-powered boat, using a single bottle. The oceanographic stations were located near shore in relatively shallow water depths ranging from 29 to 63 m. No information is given in the data report as to methods, accuracies or suspect and erroneous data.

**1962-0006**

Barber and Huyer (1971) identified the following data as suspect:

| Stn. | Depth | Change | Reason |
|---|---|---|---|
| 33 | 350 | Delete S | Strong density inversion |
| 37 | 500 | Delete S, T | Strong density inversion |
| 37 | 600 | Delete S, T | |
| 39 | 200 | Delete S, T | Slight inversion where strong gradient expected |
| 41 | 10 | Change S to 29.424 | A number of density inversions |
| 41 | 20 | Change S to 31.020 | |
| 41 | 30 | | |
| 41 | 50 | Change S to 31.170 | |

**1962-0013**

These data obtained at a temporary water level station in Queens Channel are available from MEDS under the identification number listed in the "Source or Reference" column of Table 1. As discussed for data set 1949-0001, the type of instrument, accuracies and any occurrences of erroneous data are not known.

At this time a number of different types of water level gauges were in use by the Canadian Hydrographic Service including the Ott float gauge, the Ott potentiometric gauge, the Leopold-Stevens A71 water level recorder and the Ottboro gauge (Stephenson, 1977). In particular, the Ottboro gauge (Canadian Hydrographic Service, 1964) was designed for use at temporary water level stations while the other instruments were more likely to be used at permanent stations.

**1963-0010**

Beginning in 1963, the Defence Research Board of Canada established a field station at the head of Tanquary Fiord, located on the west side of Ellesmere Island. This station served as a base camp for scientists of many disciplines including glaciology, zoology, botany, meteorology, ice physics and geology. Physical oceanographic data continued to be collected until at least 1967. (Some physical oceanographic data may have been collected in years subsequent to 1967, but no written description has yet been located.)

The methods and instrumentation used in the 1963 oceanographic field program are discussed in Hattersley-Smith (1964) while further useful comments concerning methods are presented in Hattersley-Smith and Serson (1966) and CODC (1969).

The spring oceanographic stations were reached by use of motor toboggan and a dog team. Serial temperature and salinity data were obtained with Knudsen bottles using a single reversing thermometer. Salinity samples once drawn, were apparently allowed to freeze prior to shipment south for laboratory analysis. While the method of salinity determination is not specified, it was very likely the conductive salinometer widely in use by this time.

Once ice breakup had begun, a 22 foot freight canoe served as the data collection platform. The instruments used for the summer oceanographic program were identical to those of the spring program.

Station locations were determined by theodolite bearings to shore features. Typical position accuracies are given as 700 m or better (CODC, 1969).

Bottle station temperature and salinity data were also collected from the density-stratified Lake Tuborg located northeast of the head of Antoinette Bay. Reversing thermometers were not available for this station, so the only temperature data available is that obtained with a bathythermograph.

Limited water level observations were made near the base camp at the head of Tanquary Fiord over intermittent 1 to 3 day periods in late June and the month of July. Data were obtained by measuring water level against a staff embedded in a drum filled with gravel situated in about 1 m of water.

**1964-0004**

No report of any kind was located concerning the oceanographic data obtained from the CCGS Sir John A. MacDonald in 1964. The bottle cast temperature and salinity data are available from MEDS.

**1964-0005**

Oceanographic observations were obtained from an ice camp established primarily for studies of under ice acoustic measurements. Transportation was provided by tractor vehicles starting from the Isachsen weather station. The data were collected in a heated shelter located over the ice hole using Fjarlie seawater sampling bottles equipped with Richter and Weise reversing thermometers. Salinity samples were stored in 8 oz citrate bottles "... which were protected from freezing too fast." The samples were analyzed on a conductivity salinometer in Nanaimo, B.C.

**1964-0008**

1964 marked the second year of operations from the field station at the head of Tanquary Fiord operated by the Defence Research Board of Canada (see 1963-0010).

The data collection methods and procedures were nearly the same as those of the previous year as described in Hattersley-Smith (1967), Hattersley-Smith and Serson (1966) and CODC (1969).

Water level measurements in 1964 were obtained with a Foxborough underwater tide-gauge, on loan from the Canadian Hydrographic Service. The gauge operated continuously from July 8 to August 23 with the exception of a four day gap from July 20-24.

### 1965-0005

1965 was the third year of operations from the Tanquary Fiord base camp operated by the Defence Research Board of Canada. Oceanographic data collection methods and instrumentation appear to be the same as those used in 1963 (1963-0010) and 1964 (1964-0008) as indicated by the data report (CODC, 1969).

No water level measurements were catalogued for 1965 by MEDS. It is not known which, if any, of the concurrent measurement programs of 1964 continued in 1965.

### 1966-0010

1966 was the fourth year of operations from the Tanquary Fiord base camp operated by the Defence Research Board of Canada. Oceanographic data collection methods and instrumentation appear to be the same as those used in 1963 (1963-0010) and 1964 (1964-0008) as indicated by the data report (CODC, 1969).

Apparently no water level measurements were obtained in 1966, as indicated by the absence of any such record in the MEDS catalogue. It is not known which, if any, of the concurrent measurement programs of 1963-1964 continued into 1966.

### 1967-0002

At each oceanographic station on this 1967 CCGS *Labrador* cruise, a single reversing bottle station cast was carried out. A bathythermograph profile was also obtained at most stations. Samples for salinity determination were drawn into flat 8 oz. glass medicine bottles, stored on board and subsequently analyzed at the Atlantic Oceanographic Laboratory, Dartmouth, N.S., using a salinometer of the type described by Brown and Hamon (1961).

Sediment cores were obtained at about one station in three using a large gravity corer. The cores were forwarded to Dr. B.R. Pelletier of Atlantic Oceanographic Laboratory.

At a few stations, water samples were collected for deuterium analysis at the Woods Hole Oceanographic Institution. The results for these samples are reported in Redfield and Friedman (1969).

An instrument capable of measuring temperature and salinity in situ was used at one location (station 20), among those occupied in the Queen Elizabeth Islands. Comparisons with concurrent bottle cast measurements at eight stations over the duration of the cruise revealed differences of $-0.04 \pm 0.14$C° (mean and standard deviation) and $0.13 \pm 0.11^{o}$/oo for temperature and salinity, respectively (CODC, 1968).

Short period (8 to 18 hours) time series measurements of the current speed and direction, water temperature and salinity were obtained at 1 m depth during this cruise (Herlinveaux, 1974). A Hydroproduct current meter was used for this purpose. In addition, information on near-surface currents was inferred from ship and iceberg drift observations.

**1967-0005**

1967 was the fifth year of operations in Tanquary Fiord.

**1968-0001**

Reversing water bottles and thermometers were used (Herlinveaux, 1970). Each cast was followed by a BT. Salinity was determined with a conductivity salinometer. The data are presented as listings.

Dissolved oxygen was also measured and biological samples were collected using the submersible Pisces.

**1968-0008**

See 1962-0013.

**1968-0015**

The Tanquary and Hazen camps were continued in 1968. The MEDS file contains temperature-salintiy data from one station only, at the mouth of Nansen Sound. Other data were collected at the junction of Eureka Sound and Greely Fjord, and in Tanquary Fjord, but these are not archived with MEDS. Current profiles were made daily.

**1969-0014**

1969 marked the first of an eight-year period of data collection by the Frozen Sea Research Group of the Institute of Ocean Sciences in d'Iberville Fiord, an appendage to the Nansen Sound-Greely Fiord system.

In the early spring period of 1969, CTD data were collected at three sites using a Guildline CTD, although date and time information could not be located for these profiles. The measurement depth intervals were 1 m. These data should be used with care, as the calibration values for the CTD instrument may be in question.

Other measurements collected at this time were temperature time series data using a chain of thermistors at depths from near the ice bottom to 46 m "... at locations fairly close to shore." (Lake and Walker, 1973). Sampling intervals varied from 10 seconds to 1 hour over periods of a few days to a week of each field trip.

**1969-0015**

Data collection resumed at d'Iberville Fiord (see 1969-0014) in the summer of 1969. During this period, bottle samples were used to provide salinity data for shallow depths close to shore. A chain of thermistors suspended from a buoy provided time series temperature data. In 1969, currents (down to 2 m depth) were estimated using dye plumes.

During this period, a diaphragm-operated Ottboro recorder provided water level measurements at a location just off the beach adjacent to the base camp (Lake and Walker, 1973).

**1969-0016**

See 1962-0013.

**1970-0017**

A Guildline CTD provided profiles of salinity and temperature, at depth intervals of 0.25 m. In addition, thermistor chains measured time series temperature data to depths of 15 m (as described in 1969-0014) and water level measurements were obtained with a diaphragm-operated Ottboro recorder at a beach location near the base camp.

**1970-0018**

As for 1969-0015.

**1970-0019**

Serson (1974) presents temperature and sigma-t profiles from 1970. No information is given about the data collection personnel or methods.

**1971-0015**

A Guildline CTD provided salinity and temperature profile data, at depth intervals of 0.25 m. In addition, under-ice current measurements were made by means of photographic records of dye plume releases to depths of 2 m beneath the sea ice (see Lake and Lewis, 1973). The sites of these dye tracer measurements were:

| Station | Latitude | Longitude |
|---|---|---|
| 1-71 | 80°34.75'N | 79°29.0'W |
| 2-71 | 80°34.0'N | 78°05.0'W |

while the time and dates could not be located. Velocities ranged from 0 to 3-5 cm/s.

**1972-0023**

Data collected in 1971 appears to have been limited to time series water level data at 10 m depth commencing on August 22, and thermistor chain data from August 20-September 11, at depths to 12.5 m.

The water level data were collected with a newly designed instrument which utilized an Aanderaa data logger and a Gulton differential pressure transducer which permits correction for atmospheric pressure fluctuations (Lewis, 1973).

**1972-0024**

Serson (1974) presents a salinity profile from Rens Fiord taken on May 7, 1972. No other details are provided.

**1973-0006**

Water mass: A Guildline CTD (accurate to ± 0.02C° and ± 0.04°/oo as stated by manufacturer) was used, and checks were made with bottle casts and reversing thermometers. Twenty-four casts were made at station 1 over a three-day period; then one cast at each of stations 2 through 6. Listings and plots are included in the report (Herlinveaux et al., 1978).

Currents: An Aanderaa RCM-4 current meter was moored at a depth of 153 m (2 m above bottom). Direction orientation was provided by a magnet on the frame the meter was attached to. Timing mechanism failure reduced the useable record length to about 6 days. Twenty-seven current profiles (instrument type not specified) were made at station 1 between April 15-19. A torsionally-rigid hose maintained direction orientation.

**1973-007**

See 1962-0013.

**1973-0008**

This represents the second phase (the first being 1973-006) of an oceanographic survey of Barrow Strait and Wellington Channel. A Guildline 8101 Arctic probe CTD unit and a Hydro Products Savonius rotor current meter were used. Repeated CTD casts were made while the ship was at anchor (Herlinveaux et al., in preparation).

**1973-0012**

Serson (1974) shows a progressive vector plot of a May 14-17, 1973 current meter record from 2.32 m beneath the ice base in Sverdrup Channel. An ice salinity plot is also shown from May 15 data. There is no mention of the type of meter used or reference to a data report.

**1973-0013**

CTD measurements were collected with Guildline Model 8101A CTD units. To monitor the accuracy of the CTD measurements water samples were collected from oceanographic bottles. Precision thermistors used to check water temperatures were calibrated in a triple point cell. The data were recorded on a Vidar 5400 data logger with printed and punched paper tape output, at a depth resolution of 1 m. The estimated accuracy of temperature and computed salinity vary according to the magnitude of the vertical gradients. Each record in the data report is annotated according to estimated accuracy. A detailed discussion of the methods used in collecting the CTD data is presented by Lewis and Sudar (1972).

**1973-0015**

Water level data were collected at two sites in 10 m of water using the bottom pressure gauge (see 1972-0023). Field notes indicate that one of the records operated at 80°36'N, 79°33'W had suspect data from June 28-July 4.

A thermistor chain was operated at 80°35.5'N, 79°32.0'W from June 30, 1973 to June 19, 1974. The sensors were at depths of 0.5, 0.7, 1.1, 1.3, 1.5, 1.7, 1.9, 2.1, 2.3 and 2.5 m; the sampling rate is not known.

**1974-0018**

Current-meter measurements and water properties were measured at seven locations in and near Danish Strait in 1974, near the Jackson Bay G-16 well site. Supporting information is sparse. A current meter, possibly a Cushing electromagnetic, was used to measure currents at depths between 0 and 2 m beneath the ice. Record lengths were short, less than 2 days. The quality of the data cannot be determined at this time.

General comments regarding data collected for and by Panarctic 1974-1986:

| | |
|---|---|
| Currents: | - generally used Aanderaa RCM-4's and speeds were often below stall speed for much of the record length.<br>- some records have been found to be in error by 180° due to surface alignment error. It is not certain which records are wrong.<br>- the reports rarely discussed directional accuracy.<br>- the RCM-4 current meters apparently had conductivity and temperature sensors, however these data were never mentioned in reports. |
| Water properties: | - quality of early data poor; used RCM-4's to profile, no bottles or reversing thermometers to check on calibration.<br>- recording of times of observations not always accurate<br>- starting in 1977, a Guildline CTD came into use.<br>- starting in 1979, bottles and reversing thermometers were used for in situ calibration purposes, although it was often unclear how corrections were made. |
| Water levels: | - generally used Steven analog recorders, fixed on ice with pulley line and weight on bottom.<br>- errors due to sinking of weight, possible lateral movement of ice, and poor accuracy of time and height recordings.<br>- data reports often anavailable. |

**1974-0025**

CTD data were collected during two periods at d'Iberville Fiord in 1974: March 30-April 10 and August 23-25. The methods are summarized in 1973-0013.

In 1974, water level measurements were obtained at two locations in 10 m water depth using a bottom pressure gauge as described in 1972-0023. In addition, records of thermistor data were located from August 19, 1974 to June 19, 1975. Documentation as to location and sampling rate was not found. Hourly time series current meter measurements were obtained at three locations across the fiord. The data were collected with Aanderaa recording current meters modified for Arctic use in order to provide a directional reference. The instruments were located over the sill within 1 m of the sea ice and 1 m above the bottom on the sill. While the current meters were not recovered the data were relayed by VHF telemetry to a recorder at the base camp. Many instances of suspect or incorrect data values were evident in the recorded data.

**1974-0118**

A YSI 33 meter was used to obtain data at 1 m, 3 m, and bottom. No estimates of data accuracy were provided in the report.

**1974-0121**

Documentation (Dobrocky, 1975) was not available, accounting for the '2' rating.

**1974-0134**

Existing documentation, available from the Institute of Ocean Sciences, is not adequate. No methods are given or instrumentation used. There are suspect values in the salinity data and no corresponding temperature data. The current data is summarized as to speed (maximum speeds, exceedence diagrams), but lacks directional information.

**1975-0016**

Five Aanderaa RCM-4 current meters were deployed near surface at five locations near northwestern Melville Island. The meteorological convention, using direction from, was used. The depths of the meters are not given but were planned to be within 2 m of the bottom of the ice. Currents were weak and many recordings were below the 2.2 cm/s threshold value of the meters, particularly at sites 1, 2 and 4. At locations 1 and 2 constant directions were recorded, probably due to jammed vanes. Apparently these values were also used to produce current roses and progressive vector diagrams (Beak, 1976a). There also may be timing errors at stations 1, 2 and 5 since record length and number of records do not agree. The method of referencing north is not specified. In later programs the meters were rigidly connected to surface, but human error often introduced a 180° error in direction.

An Interocean 513 CTD was used to obtain in situ measurements of water properties to 10 m depth at all five locations; for depths greater than 10 m at site 1 an Aanderaa RCM-4 was used. Dates were not provided for the shallow profiles. Salinity values were abnormally high. Also see general comments for 1974-0018.

**1975-0017**

Aanderaa RCM-4 current meters were used to measure currents at two sites. Currents were measured at various depths from surface to 366 m, and for periods of time ranging from 1 to 14 days. No discussion of mooring design or accuracy of current direction measurements is given (Beak, 1976b).

Profiles of temperature and conductivity were also made, apparently using an Aanderaa RCM-4 as well, although this was not stated. Time series of temperature and conductivity were also recorded while the RCM-4 was moored at the various depths.

Water levels were also measured during January-April 1975 at the Drake 1-55 well site, 15 km offshore, at the same latitude as Warren Point. The instrument used was not specified in Beak (1976b). Also see general comments for 1974-0018.

### 1975-0018

An Aanderaa RCM-4 current meter was moored near-surface at each of three locations. Record lengths are roughly 5 months long. At the Hazen Strait location little if any useful data was obtained; the current meter casing was flooded upon recovery. The record from the Desbarats Strait site has many records below the stall speed. The MacLean Strait data are worse with no currents about 70% of the time and large segments of record with unvarying direction.

An Interocean 513 CTD was used to measure conductivity, temperature and pressure in situ at the same three locations. The data are considered suspect and no documentation was available. Also see general comments for 1974-0018.

### 1975-0019

A Cushing 600 electromagnetic current meter was used to obtain six separate 24-hour measurements at one site. The three records of March 23, 19 and April 3 appear reasonable. The other three are suspect or only had one channel working.

In situ temperature and conductivity were measured using a Beckman RS5-3 and a Y.S.I. instrument. Details of methods and accuracies are unknown. Also see general comments for 1974-0018.

### 1975-0020

One Aanderaa RCM-4 was moored at 10 m depth in Hecla and Griper Bay off northern Melville Island, from December 6, 1975 to February 27, 1976. There is no discussion of direction due to the proximity of the magnetic north pole (Beak, 1976d). Current speeds in February were generally below threshold values.

An RCM-4 was also used for profiles of conductivity, pressure and temperature on December 6, 1975 and February 11, 1976. The February profile of salinity appears to be too low, and both profiles show warmer water at surface which is unexpected.

Measurements of high and low tide were also made but only to ± 1 hour accuracy. Also see general comments for 1974-0018.

### 1975-0021

Currents were measured at one location using both an Aanderaa RCM-4 and a Cushing electromagnetic current meter. The two differed by about 30° in direction and the Cushing speeds were considered unreliable, being much larger than the Aanderaa's.

An Aanderaa RCM-4 was used to obtain in situ profiles of temperature and conductivity. The conductivity data are suspect since they indicate a freshening of the entire water column by $2\,^{o}/oo$ between February and April. the moored current meter record of conductivity suggests the February conductivity profile to be in error.

A Stephen water level recorder was used but times were recorded with an accuracy of only ± 1 hour. Also see general comments for 1974-0018.

### 1975-0022

Existing documentation is poor and it is difficult to determine exactly what data was collected. Currents were measured at two sites - Prince Gustaf Adolf Sea, and Hazen Strait - using a Cushing electromagnetic current meter. At the first site it appears that one instrument was used, and only measured one component of the current (e.g. NS but not EW, and vice versa). At the Hazen Strait site, measurements of both components were obtained for the period April 9-May 25. In most cases, the sample interval was not constant, and the instrument depth was not recorded.

An Aanderaa RCM-4 was used to profile temperature and conductivity at three sites. The longitude recorded for the MacLean Strait site was wrong. It is not known if bottles were used to check the calibration. Also see general comments for 1974-0018.

### 1975-0023

Measurements of conductivity and temperature were made at Jackson Bay sites using a Beckman RS5-3, a Y.S.I. probie and reversing thermometers. The temperature measurements of the Beckman RS5-3 were unreasonable, making the computed salinities unreliable. Also see general comments for 1974-0018.

### 1975-0039

CTD data were collected at d'Iberville Fiord from March 28, 1974 to April 12, 1974 using the methods described in 1973-0013.

Water level measurements sampled at 30 minute intervals were obtained at two locations in 10 m water depths using a bottom pressure gauge described under 1972-0023. At one of these sites (80°36'N, 79°33'W) short records of rapid sampling, at one sample every 17.5 seconds, were carried out over the period:

0900 April 6 - 0859 April 8
1675 April 18 - 1559 April 19

Time series current meter measurements were obtained at four locations, with samples recorded every 10 minutes, using an Aanderaa RCM-4 current meter. These instruments, mounted 1 m above the bottom, were modified to provide an internal directional reference in this area of weak horizontal magnetic fields.

In addition, current profile data were obtained using an ultrasonic current meter produced by the Christian Michelsen Institute in Bergen, Norway. The continuously recording unit provides an accuracy approaching ± 0.25 cm/s. Current direction was obtained by indirect use of a gyro, with an estimated accuracy of ± 10 degrees (Lake and Walker, 1976).

### 1975-0040

See comments for 1962-0013.

**1975-0138**

In addition to their work in Nansen Sound and d'Iberville Fjord (1975-0039), the Frozen Sea Research Group of IOS collected temperature-conductivity data in Greely Fiord. The data are held at IOS (R.A. Lake).

**1976-0014**

Subsurface currents were measured at one site in Hecla and Griper Bay using an Aanderaa RCM-4 current meter, between January 15 and April 17, 1976. The record for January 15-February 7 appears to be reasonably good. February 7-12 has suspect (constant) directions and speeds. The February 12-16 record appears okay. From February 16 to April 8 the direction vane was apparently fouled due to sediment buildup. Speeds were below stall speed after February 20. From April 8-17 nearly all speeds were below stall speed, and constant directions occurred during the April 11-15 interval.

Three profiles of temperature and conductivity were made on January 15, February 10 and April 4, using an Aanderaa RCM-4. The January 15 data are suspect as they show higher salinities than felt reasonable. Also see general comments for 1974-0018.

**1976-0015**

Aanderaa RCM-4 current meters were deployed at three sites. The IVL (1976) report was unavailable but apparently the direction channel is unreliable for all three records. Also see general comments for 1974-0018.

**1976-0016**

Profiles of conductivity and temperature were obtained using an Aanderaa RCM-4. The RCM-4 was modified with subsequent accuracies quoted (Peck, 1977) as ± 0.1 mmho/cm (conductivity), ± 0.05° (temperature) and ± 1.5 m depth. Equivalent accuracy of salinity is about ± 0.15°/oo. No mention of bottles or reversing thermometers was made.

Four electromagnetic current meters, two Marsh-McBirney 501 and two Endeco 720, were used. One of the Marsh-McBirney records was found to be unreliable and was not presented by Peck (1977). The meters were referenced (as to direction) and suspended from the ice surface. They were suspended 2.4 m below the ice surface.

The report also presents a harmonic analysis of the tide record from Pelham Bay.

**1976-0017**

Currents were measured using modified Aanderaa RCM-4's. Smaller in-line directional vanes were used to enable the meters to fit through holes in the ice. The close proximity of the north magnetic pole precluded the use of magnetic compasses. Presumably the meters were oriented with respect to the surface; directional accuracy was stated to be ± 5-7° (Greisman and Lake, 1978).

The current meters were deployed at three distinct levels: (1) immediately beneath the ice (speed sensor 15 to 20 cm below the ice bottom with direction vane 15 cm deeper); (2) mid-depth, varying according to location and water depth (at some locations, an instrument was not deployed at mid-depth); and (3) near-bottom current meters which were mounted on an aluminum frame (speed sensor 2 m above the sea floor with the direction vane 60 cm below the speed sensor).

The data from the under-ice and near-bottom current meters were transmitted hourly to shore stations via a UHF radio system where the data were recorded on a model 610 Sea Data cassette recorder. In all cases the data were internally recorded as well. However, some of these instruments were not recovered with the result that the lower quality shore station recordings provided the only available information. These records are summarized below:

| Station | Percent of Data Recovery |
|---|---|
| B2.2 | 80 |
| B3.1 | 60 |
| B5.2 | 30 |
| A1.2 | 60 |
| A3.2 | 98 |
| A4.2 | 100 |
| A5.2 | 67 |

The erroneous or missing data values were replaced with interpolated values. For the near-bottom current meter at station A2 in Austin Channel, the instrument though recovered on March 14, 1977 had toppled over on August 21, 1976. After August 21, the only useable recorded data were the temperature values.

A detailed analysis of these current meter data are given in Greisman and Lake (1978).

**1976-0018**

CTD data were collected in d'Iberville Fiord, Greely Fiord and Eureka Sound from March 8-31, 1976 following the methods described under 1973-0013.

Water level measurements were obtained at two locations in 10 m water depth. The data were collected with a bottom pressure gauge as described under 1972-0023.

**1976-0019**

See general comments for tide gauges under 1974-0018.

**1977-0019**

CTD data were collected in d'Iberville Fiord from March 4-27, 1977 following the methods described under 1973-0013. Water level data were collected in 32 m water depth at a single location. The data were obtained with an Aanderaa bottom pressure gauge, sampling once very 30 minutes.

**1977-0022**

Two Aanderaa RCM-4 current meter records are available for one site in Hecla and Griper Bay, March 24-April 16 and April 17-May 1. The meter was hung 10 m below the ice surface. Three days are missing from the first record, probably at the beginning, and speeds were below stall speed approximately 45% of the time.

Three profiles of conductivity and temperature were also made. The first profile, on March 23, is suspect, as the instrument did not record properly. Bottle samples were collected to check the data from all profiles. Also see general comments under 1974-0018.

**1977-0023**

Currents were measured at two sites in MacLean and Hazen Straits using Aanderaa RCM-4's. At the MacLean and Hazen Strait sites, currents were below the stall speed about 64% and 22% of the time respectively. The Aanderaa RCM-4's were also used to obtain conductivity and temperature profiles, however the quality of the data is unknown. Also see general comments under 1974-0018.

**1977-0024**

Currents were recorded using an Aanderaa RCM-4 current meter. The record is missing 21 samples (10.5 hours). Currents were below the stall speed for 28% of the time, for periods lasting up to several days.

A Guildline model 8705 CTD was used to measure profiles of conductivity and temperature. The data was reviewed by a government oceanographer and deemed to be of good quality.

Water elevations were monitored using a Stephen model 2A-35 duplex recorder. The report (Panarctic, 1978a) states poor resolution in both magnitude and time, possibly to ± hour only. Also see general comments under 1974-0018.

**1977-0025**

Subsurface currents, 10 m below the ice, were measured using an Aanderaa RCM-4. The record (January 11-April 9) contains 12 extra records, representing an error of 6 hours.

A Guildline 8705 CTD was used and the salinity/temperature data appears reasonable.

Water level data were stated (Panarctic, 1978b) to be of poor resolution in both magnitude and time. Also see general comments under 1974-0018.

**1977-0026**

The current meter instrumentation is identical to that described for 1976-0017. However, no real-time UHF transmission system was used in this experiment.

A detailed oceanographic analysis of the current meter data is presented in Greisman and Lake (1978).

**1977-0033**

Current meter data were collected as part of the development of a system to acquire real-time measurement of meteorological, oceanographic and sea-ice parameters in the Canadian Arctic using stations mounted on the ice. The system, developed by Innovative Ventures Ltd. of Calgary on behalf of Petro-Canada was given the acronym SALDAS, for Self-contained Arctic Long-Term Data Acquisition System. Current meter measurements were collected with Aanderaa RCM-4 current meters. These instruments were modified by using small directional vanes, directionally referenced to the surface through the use of torsionally-rigid mooring lines.

For these data, some important documentation information could not be located. A total of 11 raw Aanderaa current meter data tapes exist, as identified by the instrument serial number. Of these, two tapes were unreadable while the remainder produced acceptable translations. However, information identifying the instruments used at each site has not been found to date.

Written documentation describes the start and stop times for five locations; of these positions, four of the sites are given in separate documentation. At the fifth station, located in Prince Gustaf Adolf Sea where no position was noted, the location of the 1979 SALDAS site (1979-0017) was used. In addition, no indication could be found as to the sampling rate used. While it is known that current meters were operated on two levels at each site, the depth of the deepest meter is given as 30 m and 100 m in different portions of the available documentation. An examination of the raw data (Fissel, 1982) reveals that in 7 of 9 useable time series records, the directional data appears to remain unrealistically constant over long periods of time. In addition, four of the data sets have periods where the speeds abruptly drop to zero readings over many samples.

**1977-0119**

The documentation (B.C. Research, 1978) was not available to properly evaluate these data.

**1978-0007**

Water mass measurements: A Guildline Mark IV CTD was used. The data are presented as listings and profile plots (Prinsenberg, Vol. 1, 1978).

Current measurements: Fourteen Aanderaa RCM-4's were also deployed through the ice. Directional orientation was provided through rigid coupling to surface (Prinsenberg, Vol. 2, 1978).

**1978-0010**

Three sets of current measurements were made east of Sabine Peninsula using Aanderaa RCM-4's. The three data sets cover January 23-April 25, January 22-March 25, and March 27-April 11. The first record is missing 6 days and 10 hours of data, and 45% of the speeds are below stall speed. The second set apparently has no reliable direction data, and 91% of the speeds were less than the stall speed in the third record. No details are available regarding the water level record. Also see general comments under 1974-0018.

No data report could be located regarding these data. The above information was taken from Van Ieperen (1981) and a computer archival tape prepared by Panarctic Oils Ltd.

**1978-0011**

At two sites, off northeast Cornwall Island and Edinburgh Sea, two Aanderaa RCM-4 current meters were suspended at 2 and 3 m beneath the ice. At the northeast Cornwall location apparently only the upper meter worked and it provided no directions after mid-March. At the Edinburgh Sea location only the lower meter functioned and some uncertainty exists concerning the time period of recorded data. Also from May 26 until the end of record (June 4) the current data are wrong. There is also confusion regarding the instrument orientation, with a possible 112° error in the plots of the Panarctic (1979d) report. Also see comments under 1974-0018.

**1978-0012**

The instrumentation methods are similar to those described for 1976-0017. However, no real-time UHF transmission system was used and the current meters nearest the surface were located at 12 m depth.

**1978-0013**

An Aanderaa RCM-4 was moored 10 m below the ice cover. Thirty-four percent of the readings were below stall speed and the record length and number of records disagree by 36 hours.

Profiles of conductivity and temperature were obtained using a Guildline 8705 CTD. Apparently no bottle casts or reversing thermometers were used to check the readings. The water level data are not of good quality, probably due to inaccuracy of timing. Also see general comments under 1974-0018.

**78-0014**

An Aanderaa RCM-4 was moored 10 m below the ice during the January 1-April 6 period, although there is no data after February 20. The January 1-February 20 record has many spikes but the data appear reasonable.

Guildline 8705 CTD profiles were made during December 30, 1978-January 2, 1979 and April 3-5, 1979. Apparently no bottle samples or reversing thermometers were used to check instrument performance.

The times of Stephen model 2A-35 tide gauge data were recorded to ± 30 minutes. Also see general comments under 1974-0018.

**1978-0016**

The existence of these data are referenced in Van Ieperen (1981) but no data report could be located describing methods, techniques or the data itself.

### 1979-0017

Current meter data were collected as part of the development of a system to acquire real-time measurement of meteorological, oceanographic and sea-ice parameters in the Canadian Arctic using stations mounted on the ice (see also 1977-0033). The system, developed by Innovative Ventures Ltd. of Calgary on behalf of Petro-Canada was given the acronym SALDAS, for Self-contained Arctic Long-Term Data Acquisition System. Current meter measurements were collected with Aanderaa RCM-4 current meters. These instruments were modified by using small directional vanes, directionally referenced to the surface through the use of torsionally-rigid mooring lines.

The timing of the current meter data sets is uncertain. Timing checks could not be carried out since only the time of the last record and total number of samples were known, and start times had to be computed from these two values and an assumed hourly sampling rate. (For one location (station 3), the significantly longer number of measurements led to a start time in the pevious summer of 1978 which seemed highly unlikely in view of the ice conditions at this time of year; therefore, the sampling intervals for the two data sets at this location were assumed to be 30 minutes rather than 60 minutes.) At three of the other sites (1, 2 and 3) a significant difference in the number of records obtained from the upper and lower current meters (7.7, 0.9 and 5.2% respectively) also suggest possible timing problems.

Two recurring suspect patterns were noted (Fissel, 1982) in some data sets:
1) speed dropouts occurring over suspiciously long periods:

Station 2 - 30 m depth - 59 days
Station 4 - 30 m depth - 71 days
Station 5 - 30 m depth - 8 days
Station 3 - 5 m depth - >75 days
Station 3 - 30 m depth - >75 days

2) direction data which appeared to remain constant ("or locked") over long periods. This problem was most evident at station 1 at 5 m depth and station 3 at 30 m depth.

### 1979-0018

One Aanderaa RCM-4 current meter measured current speed and direction 10 m below the ice surface during the period January 13-May 5, 1979. There was about 8 hours difference between the record and the surface printout times. Temperature and salinity (from the current meter) were not discussed in the documentation (Panarctic, 1979c).

Profiles of temperature and salinity were measured using a Guildline 8705 CTD. Apparently no bottles or reversing thermometers were used to check calibration.

The water level data, using a Stephen model 2A-35, was subject to error from the sinking of the weight into the mud and possible lateral movements of the ice. The quality of data from the Aanderaa WLR-5D is unknown. Also see general comments under 1974-0018.

**1979-0019**

Fourteen current meters (modified Aanderaa RCM-4's) were moored from the ice surface. They were rigidly connected to surface and aligned using the aircraft's gyro-compass. "A follower compass solenoid inside the current meter case then gave the vane orientation with respect to the case." Three meters gave short or no records, possibly due to exposure to -40°C temperatures for a week before the scientists arrived.

A Guildline Mark IV CTD was used to obtain profiles of temperature and conductivity. Accuracies were stated to be ± 0.01$^{o}$/oo and ± 0.01°C. (Peck, 1980a,b).

**1979-0020**

Four Aanderaa RCM-4 current meter records were obtained near the Whitefish H-63A well site (W. Lougheed Island), at depths of 10, 150 and 275 m (2 meters). The direction sensors failed after 2-3 weeks on the deep current meters. Current speeds were below stall speed about 50% of the time. The 150 and 275 moorings used two point suspension aligned with true north from surface. There is no mention of weights being added to the moorings to improve stability.

A Guildline 8705 CTD was used, along with Nansen bottles and reversing thermometers. The report (Panarctic, 1980a) says agreement between CTD and bottles was excellent, however they differed by up to 0.3$^{o}$/oo. No discussion is given of how corrections, if any, were made. Also the CTD depth scales presented in the report are in error; they should be multiplied by 0.7.

A Steven 2A-35 water level gauge was used; recordings to ± 30 minutes and ± 5 cm.

**1979-0021**

These water level data were collected by the Canadian Hydrographic Service, Burlington, Ontario using bottom pressure gauges of either Aanderaa Instruments or Applied Microsystems type. Sampling rates are unknown and instrument depths are likely within 1 or 2 m of the bottom.

Positions for all deployments were determined by dead reckoning from prominent shore features (D. St. Jacques, 1981, personal communication).

**1979-0022**

Aanderaa RCM-4 current meter records were obtained at two sites in the Edinburgh Sea, 10 m below the ice surface, for the period January 21-April 11, 1980. The direction vanes apparently became "sticky" and may be unreliable after February 2.

A Guildline 8705 CTD was used, supported by Nansen bottles and reversing thermometers. Differences between the bottle and CTD salinities, for two of the winter profiles, were 0.22 and 0.89$^{o}$/oo. No explanation is given (Panarctic, 1980b) of how the CTD profiles were corrected.

Steven's 2A-35 water level gauges were deployed at both sites; accuracy is unknown. Apparently an Aanderaa tide gauge was also deployed at 77°36.5'N, 99°31.13'W but no details were available.

**1980-0013**

These data were collected as part of an oceanographic and meteorological study of the Dundas Island polynya in Queens Channel.

Five modified internally recording Aanderaa RCM-4 current meters were used. These instruments were suspended on lengths of hydraulic hose for rotational stability and to provide a fixed directional reference. The current meters use an in-line directional vane assembly attached beneath the pressure case (Lewis, 1980).

**1980-0014**

Aanderaa RCM-4's modified for Arctic use were deployed near-surface, mid-depth and near-bottom at three sites. The surface meters were rigidly connected to surface in order to obtain directional reference. The vane contained magnets which were coupled with the compass inside the casing. The mid-depth and near-bottom meters had no direction sensor. Three of the meters failed after recording some data. Two were tape drive failures, the third due to an "O"-ring leak.

An Aanderaa WLR5A was used to record ambient pressure and thus water level. Manufacturer's specified accuracy is 0.01% of selected range; the range was not specified in Juhasz (1980).

**1980-0015**

See the comments for 1979-0021.

**1981-0007**

This study was concentrated in Barrow Strait however some CTD stations were occupied in southern Wellington Channel and McDougal Sound. A Guildline MK VI CTD was deployed through holes in the ice, using a helicopter as transport. The CTD was calibrated before and after the survey.

**1981-0019**

See the comments for 1979-0021.

**1981-0108**

Temperature-salinity data were collected by B.W. Fallis of D.F.O., Western Region (Freshwater Institute). A request for details went unanswered.

**1981-0117**

The appropriate page of our report copy was missing, however the actual water level data (high/low) were plotted in Appendix E of Fenco (1981).

**1982-0003**

A Twin-Otter aircraft was used to land on the ice to make CTD profiles, throughout the Archipelago. A similar survey was also conducted the following year (1983-0010). Station positions were determined using the GNS-500 VLF/Omega navigation system on the aircraft.

Care was taken to calibrate and correct for any known errors in the CTD data (Fissel, Knight & Birch, 1984).

**1982-0107**

Temperature-conductivity data were collected by Dr. N. Watson of B.I.O. A request to B.I.O. for further details went unanswered.

**1982-0129A**

The Aanderaa current meters were calibrated by Dobrocky Seatech prior to deployment. It was stated (Van Ieperen, 1983) that the data agreed well with similar data collected in 1981 (1981-0116).

**1982-0129B**

Dobrocky deployed three Aanderaa current meters for Petro-Canada and Phillips Petroleum, while in the area doing a job for Panarctic Oils Ltd. (1982-0129A). We are not aware of any report or further details.

**1982-0130**

CTD data were taken by Dobrocky Seatech Ltd. using a Guildline 87805 probe. Near surface temperatures are probably suspect due to the use of a heat tape to keep the hole in the ice open. The data compared favorably with previous CTD measurements made by D.F.O. (1979-0019).

Some settling of the water level anchor system occurred at Cape Mamen, however, the accuracy was still believed to be on the order of ± 5 cm.

The measured currents were frequently beneath the stall speed of the instruments.

**1982-0131**

1982 was the first year of a five-year program of water level data collection from three sites along the northwest periphery of the Queen Elizabeth Islands (see also 1983-0077, 1984-0060 and 1985-0042). Moored pressure recorders were located at Audhild Bay, Mould Bay and Isachsen (begun in 1983). The data are on file at I.O.S.; Contact Mr. Fred Stephenson.

**1983-0004A**

One station in Nansen Sound was occupied as part of a large program to study the Alpha Ridge in the Arctic Ocean. Further information may be obtained from Dr. R. Perkin at I.O.S.

**1983-0005**

A Twin-Otter aircraft was used for the survey. The CTD was a Guildline 8706 probe/87102 control unit. Descent rate was controlled so the response of the condutivity and temperature sensors would be best matched. Calibrations were made for pressure, temperature and salinity. Also, simultaneous casts were made with a Bayfield Laboratory CTD in order to compare results. Refer to Fissel et al. (1984) for more detail on methods and analyses.

This data set is identified as 1983-0010 in the adjoining NW passage data inventory.

**1983-0008**

This represents the second year of a comprehensive 3-year oceanographic survey of the Archipelago (see also 1982-0004 and 1984-0040). Measurements were made of water mass, currents, and tidal variability. Analyses included non-tidal (residual) flow, tides and tidal currents, water mass variability and baroclinic structure.

**1983-0076**

The tides (water level) measured at the Cape MacMillan 2K-15 site exceeded the range of the recording instrument. Water level data were also collected attwo other sites (Grenadier A-26 77°25.1'N 99°35.93'W; Cisco K-58 77°28.6'N 106°21.15'W) although no data report was available. Water level data from Grenadier A-26 for the February 25 to March 3 period is plotted in Panarctic (1983).

Measurement of temperature, salinity and currents were also made at the Cape MacMillan site. Many current records were below the stall speed of the instrument. The near surface CTD data were probably affected by the heat tape used to keep the hole in the ice open.

**1983-0077**

Refer to comments under 1982-0131.

**1984-0039**

As in 1981 (1981-0108) temperature-salinity data were collected by Mr. Fallis of the Freshwater Institute. No details were available.

**1984-0049A**

This was the final year of a comprehensive 3-year survey (see comments under 1983-0008). The coordinates of the tide guage in Penny Strait were not provided in Buckingham et al. (1987); a nominal location of 76°39'N, 96°55'W has been assumed.

**1984-0049B**

This was part of the Arctic Shelf Program (Perkin, pers. comm.). The quality of the current meter data is not known at this time.

**1984-0059**

The CTD and water level data are of good quality. Only 2 of 5 current meters worked, and these indicated current directions contrary to those measured in 1982 and 1983.

**1984-0060**

See comments under 1982-0131.

**1985-0015**

Salinity measurements were made by Dr. Moore of Dalhousie University. A request for further information went unanswered.

**1985-0041**

Panarctic drilled West Cornwall N-49 (77°29.88'N, 97°18.54'W) during February-April, 1986. Although no data report has been found, it is believed that water level data may have been collected at this site by Geotech.

**1985-0042**

See comments under 1982-0131.

**1985-0043**

As part of an ongoing project to study tidal propagation in the Arctic Archipelago, five tide gauges were moored near Cameron Island. The data analyses are presented in Sandilands et al. (1986).

**1985-0044**

The project goal was to monitor temperature-salinity variations in the upper layer, using a self recording package suspended under the ice. As part of this study, Guildline CTD profiles were obtained at Mould Bay in 1985. For further information, contact R. Perkin at I.O.S.

**1986-0016**

Although unspecified, the water level measurements were probably made with a Stevens analog recorder, as in past years. The results are included in an unpublished data report.

# APPENDIX 2

## ADDRESSES OF INFORMATION SOURCES

Arctic Biological Station
Fisheries and Marine Service
Dept. of Environment
PO Box 400
Ste. Anne de Bellevue, PQ H9X 3R4
Phone: (514) 457-6219

Arctic Laboratories Ltd.
2045 Mills Road
Sidney, B.C. V8L 3S1
Contact Mr. P. Erickson
Phone: (604) 656-7077

Bayfield Laboratory for Marine Science and Surveys
P.O. Box 5050
Burlington, Ontario L7R 4A2
Phone: (416) 637-4380

Bedford Institute of Oceanography
PO Box 1006
Dartmouth, NS B2Y 4A2
Phone: (902) 426-3870

Canadian Hydrographic Service (CHS)
Contact Tidal Information at the Institute of Ocean Sciences
Sidney, B.C.
Phone: (604) 356-6371

Canadian Oil and Gas Lands Administration (COGLA)
Physical Environment Division
355 River Road
Ottawa, Ontario K1A 0E4
Contact Mr. A.O. Mycyk (613) 993-3760

Defence Research Establishment Ottawa (DREO)
Ottawa, Ontario K1A 0Z4
Phone: (613) 992-8395

Defence Research Establishment Pacific (DREP)
CFB Esquimalt
Victoria, B.C. V0S 1B0
Phone: (604) 388-1921

Institute of Ocean Sciences
P.O. Box 6000,
Sidney, B.C. V8L 4B2
Contact: Ocean Physics - Dr. Humfrey Melling (604) 356-6552
- Mr. Ron Perkin (604) 356-6584
- Dr. Dave Topham (604) 356-6582
Ocean Chemistry - Dr. Rob Macdonald (604) 356-6409
Tides & Currents - Mr. Fred Stephenson (604) 356-6364

International Council for the Exploration of the Sea
Palaegade 2-4
DK-1261 Copenhagen k
Denmark
Phone: (0) 1 15 42 25

Marine Environmental Data Services (MEDS)
Dept. of Fisheries and Oceans
12th Floor - 200 Kent Street
Ottawa, Ontario K1A 0E6
Phone: (613) 995-2041

McGill University
Marine Sciences Centre
Montreal, PQ H3A 2T8
Contact Dr. E.R. Pounder (Ice Research)
Phone: (514) 392-5127

National Oceanographic Data Center (NODC)
National Oceanic and Atmospheric Administration, Code D761
2001 Wisconsin Ave. NW
Washington, D.C. 20235
Phone: (202) 634-7500

National Technical Information Service
US Dept. of Commerce
Springfield, VA 22161
Phone: (703) 487-4650
NTIS handles the sale of most US government publications

US Naval Oceanographic Office
Washington, DC 20390

US Naval Oceanographic Office
NSTL station
Bay St. Louis, MS 39522

Woods Hole Oceanographic Institution
Woods Hole, MA
Phone: (617) 548-1400

World Data Centre A
Oceanography
National Oceanographic and Atmospheric Administration
Washington, DC 20235

# APPENDIX 3

## ABBREVIATIONS USED IN THIS REPORT

| | |
|---|---|
| ABS | Arctic Biological Station |
| AML | Applied Microsystems Limited |
| ASL | Arctic Sciences Limited |
| BIO | Bedford Institute of Oceanography |
| BT | Bathythermograph |
| CCIW | Canadian Centre for Inland Waters |
| CHS | Canadian Hydrographic Service |
| CODC | Canadian Oceanographic Data Centre |
| COGLA | Canadian Oil and Gas Lands Administration |
| DFO | Department of Fisheries and Oceans |
| DIAND | Department of Indian Affairs and Northern Development |
| DREO | Defense Research Establishment Ottawa |
| DREP | Defense Research Establishment Pacific |
| EPS | Environmental Protection Service |
| ESRF | Environmental Studies Revolving Fund |
| GSC | Geological Survey of Canada |
| IOS | Institute of Ocean Sciences |
| LGL | LGL Ecological Research Associates, Inc. |
| MEDS | Marine Environmental Data Services Branch, Dept. of Fisheries and Oceans, Ottawa |
| MOT,DOT | Ministry of Transport, Dept. of Transport, now Transport Canada |
| NODC | National Oceanographic Data Center |
| NOGAP | Northern Oil and Gas Action Program |
| NRC | National Research Council |
| PCSP | Polar Continental Shelf Project |
| T/S | Temperature-Salinity |
| USNHO | U.S. Navy Hydrographic Office, Washington |
| USNOO | U.S. Naval Oceanographic Office, Washington |
| XBT | Expendable Bathythermograph |

## CHEMICAL/BIOLOGICAL TERMS USED IN CONCURRENT MEASUREMENTS (TABLE 1)

| | |
|---|---|
| Ag | Silver |
| alkt | Alkalinity (total) |
| As | Arsenic |
| BEC | Benzene extractable compounds |
| BOD | Biological oxygen demand |
| C | Carbon |
| Ca | Cadmium |
| $CaCO_3$ | Calcium carbonate |
| $CH_3$ | Methyl (mercury) |
| $CH_4$ | Methane |
| Cl | Chlorine |
| Chl.a | Chlorophyll a |
| Co | Cobalt |
| $CO_2$ | Carbon dioxide |
| $C^{14}$ | Radioactive isotope of carbon, $C^{14}$ |
| Cr | Chromium |
| Cu | Copper |
| DNA | Deoxyribonucleic acid |
| DOC | Dissolved organic carbon |
| F | Fluorine |
| Fe | Iron |
| H | Hydrogen |
| HC | Hydrocarbons |
| HCB | Hexachlorobenzene |
| He | Helium |
| HEC | Hexane extractable compound |
| Hg | Mercury |
| KME | Kraft mill effluent |
| Mg | Manganese |
| N | Nitrogen |
| $N_3$ | Azine |
| Ne | Neon |
| $NH_3$ | Ammonia |
| Ni | Nickel |
| $NO_2$ | Nitrite |
| $NO_3$ | Nitrate |
| $O_2$ | Dissolved molecular oxygen |
| ORP | Oxygen reduction potential |

| | |
|---|---|
| P | Phosphorous |
| Pb | Lead |
| PCB | Polychlorinated biphenyls |
| pH | The negative logarithm of the hydrogen-ion concentration |
| POC | particulate organic carbon |
| $PO_4$ | Phosphate |
| RNA | Ribonucleic acid |
| Se | Selenium |
| Si | Silicon |
| $SiO_2$ | Silica |
| $SiO_3$ | Silicate |
| SPM | Suspended particulate matter |
| TDN | Total dissolved nitrogen |
| TDP | Total dissolved phosphorus |
| TOC | Total organic carbon |
| V | Vanadium |
| Zn | Zinc |

## OTHER CATALOGUES PUBLISHED IN THE CANADIAN DATA REPORT OF HYDROGRAPHY AND OCEAN SCIENCES NO. 5 SERIES, AS VOLUMES OF THE ARCTIC DATA COMPILATION AND APPRAISAL (ADCAP)

Cornford, A.B., D.D. Lemon, D.B. Fissel, H. Melling, B.D. Smiley, R.H. Herlinveaux and R.W. Macdonald. 1982. Volume 1. Beaufort Sea: Physical Oceanography -- Temperature, Salinity, Currents and Water Levels. Vol. 1, 279 p.

Thomas, D.J., R.W. Macdonald and A.B. Cornford. 1982. Volume 2. Beaufort Sea: Chemical Oceanography. Vol. 2, 243 p.

Birch, J.R., D.B. Fissel, D.D. Lemon, A.B. Cornford, R.A. Lake, B.D. Smiley, R.W. Macdonald and R.H. Herlinveaux. 1983. Volume 3. Northwest Passage: Physical Oceanography - Temperature, Salinity Currents and Water Levels. Vol. 3, 262 p.

Thomas, D.J., R.W. Macdonald, A.G. Francis, V. Wood and A.B. Cornford. 1983. Volume 4. Northwest Passage: Chemical Oceanography. Vol. 4, 200 p.

Birch, J.R., D.B. Fissel, D.D. Lemon, A.B. Cornford, R.H. Herlinveaux, R.A. Lake and B.D. Smiley. 1983. Volume 5. Baffin Bay: Physical Oceanography -- Temperature, Salinity, Currents and Water Levels. Vol. 5, 372 p.

Fissel, D.B., L. Cuypers, D.D. Lemon, J.R. Birch, A.B. Cornford, R.A. Lake, B.D. Smiley, R.W. Macdonald and R.H. Herlinveaux. 1983. Volume 6. Queen Elizabeth Islands: Physical Oceanography -- Temperature, Salinity, Currents and Water Levels. Vol. 6, 214 p.

Birch, J.R., D.B. Fissel, A.B. Cornford and H. Melling. 1984. Volume 7. Canada Basin - Arctic Ocean: Physical Oceanography - Temperature, Salinity, Currents and Water Levels. Vol. 7, 624 p.

Harwood, L.A., L.A. Turney, L. de March, B.D. Smiley and P. Norton. 1986. Volume 8. Beaufort Sea: Biological Oceanography -- Seals, 1826-1985. Vol. 8 (Part 1, 352 p.; Part 2, 301 p.)

Woods, S. and B.D. Smiley. 1987. Volume 9. Beaufort Sea: Biological Oceanography -- Bacteria, Plankton and Epontic Community, 1914 through 1985. Vol. 9, 412p.

Norton, P., B.D. Smiley and L. de March. 1987. Volume 10. Beaufort Sea: Biological Oceanography -- Whales, 1848-1983. Vol. 10, 407p.

Wainwright, P.F., B.D. Smiley and A. Blyth. 1987. Volume 11. Beaufort Sea: Biological Oceanography--Marine Zoobenthos, 1914 to 1986. Vol. 11, 367p.

Birch, J.R., D.D. Lemon, D.B.Fissel, and H. Melling. 1987. Beaufort Sea: Physical Oceanography -- Currents, Water Levels and Waves. 1914 to 1986 (revised and updated Volume 1). Vol. 12, 459p.

Norton, P.N., B.D. Smiley and L. de March. 1987. Northwest Passage: Biological Oceanography -- Whales. 1820 to 1984. Vol. 13 (Part1, 244p.; Part 2, 487p.).

Birch, J.R., D.B. Fissel, D.D. Lemon and R.A. Lake. 1987. Northwest Passage: Physical Oceanography -- Currents, Water Levels and Waves. 1820 to 1986 (revised and updated Volume 3). Vol. 14, 300p.

Ratynski, R.A., L. de March and B.D. Smiley. 1988. Beaufort Sea: Biological Oceanography -- Fish. 1896 to 1985. Vol. 15 (Part 1, 301p,; Part 2, 290p.).

Thomas, D.J., P.F. Wainwright and M. Yunker. 1986. Queen Elizabeth Islands: Chemical Oceanography -- 1952 to 1985. Vol. 16, 119p.

Ratynski, R.A., and L. de March. 1988. Northwest Passage and Queen Elizabeth Islands: Biological Oceanography -- Fish. 1819 to 1985. Vol. 17, 423p.

Thomas, D.J., R.W. Macdonald and M. Robinson. 1986. Canada Basin: Chemical Oceanography -- 1926 to 1983. Vol. 18. 109p.

Harwood, L.A., P. Norton, L.deMarch and B.D.Smiley. Northwest Passage: Biological Oceanography -- Pinnipeds. 1834 to 1985. Vol. 19, 450p.